SITE INFORMATION

Report Type: Closure Report

General Site Information:						
Site:	**Audacious to Fearless**					
Company:	**EOG Resources**					
Section, Township and Range	**Unit K**	**Sec. 23**	**T 23S**	**R 25E**		
County:	**Lea County**					
GPS:	**32.11490**			**-103.6485**		
Surface Owner:						

Release Data:	
Date Released:	
Type Release:	
Source of Contamination:	
Fluid Released:	
Fluids Recovered:	

Official Communication:			
Name:	James Kennedy		Clair Gonzales
Company:	EOG Reources		Tetra Tech
Address:	5509 Champions Dr		901 West Wall Street
			Suite 100
City:	Midland Texas, 79706		Midland, Texas
Phone number:	432-686-7016		(432) 687-4559
Fax:			
Email:	James_kennedy@eogresources.com		Clair.Gonzales@tetratech.com

Site Characterization	
Depth to Groundwater:	*212' below surface*
Karst Potential:	*low*

Recommended Remedial Action Levels (RRALs)				
Benzene	***Total BTEX***	***TPH (GRO+DRO+MRO)***	***TPH (GRO + DRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*2,500 mg/kg*	*1,000 mg/kg*	*20,000 mg/kg*

TETRA TECH

January 11, 2021

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

Re: Closure Report for the EOG Resources, Audacious to Fearless, Unit H, Section 23, Township 25 South, Range 32 East, Lea County, New Mexico.

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, Audacious to Fearless, Unit H, Section 23, Township 25 South, Range 32 East, Lea County, New Mexico (Site). The site coordinates are 32.114900º, -103.648500º. 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 December 18, 2019, and released approximately four hundred and seventy-five (475) barrels of produced water due to a lay flat line failure. Vacuum trucks were dispatched to remove all freestanding fluids, recovering approximately four hundred (400) barrels of produced water. The release occurred in the pasture and impacted an area measuring about 785’ x 120’. The initial C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site, and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances, and the site is in a low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 20, approximately 3.45 miles southeast of the site, and has a reported depth to groundwater of 212 feet below ground surface. Site characterization data is included in Appendix B.

Regulatory

A risk-based evaluation was performed for the site in accordance with the New Mexico Oil

Tetra Tech
901 West Wall, Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

TETRA TECH

Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based on the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

On March 2, 2020, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of twenty-one (21) auger holes (AH-1 through AH-21) were installed to total depths ranging from (0'–3.5') below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1, elevated concentrations requiring reclamation are highlighted (green). The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene, total BTEX, and TPH concentrations above the laboratory reporting limits, except for the sample collected at (0-0.5') of the area of auger hole (AH-15), which reported the DRO concentration of 68.8 mg/kg, which is below RRALs. The areas of auger holes (AH-8 through AH-21) showed chloride concentrations above the reclamation limit of 600 mg/kg, except for the areas of auger holes (AH-9, AH-10, and AH-12), respectively.

Remediation and Reclamation Activities

Based on the results of the soil assessment, Tetra Tech personnel were onsite March 19, 2020, through April 24, 2020, to supervise the remediation and reclamation activities as well as to collect confirmation samples. The impacted areas were excavated to total depths ranging from 1.5'-4.5' below the surface, as shown on Figure 4A, Figure 4B, and Table 2.

A total of 217 bottom hole samples (Bottom Hole 1 through Bottom Hole 217) and 40 sidewall samples (N1SW through N8SW, W1SW through W14SW, E1SW through E15SW, S1SW through S3SW) were collected every 200 square feet, to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 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 4A and Figure 4B.

Referring to Table 2, none of the samples analyzed showed benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. However, elevated chloride concentrations were detected, all below RRAL. Additionally, all of the samples taken from depths 0-4.0' below surface were below the 600 mg/kg reclamation threshold.

Approximately 4,490 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

TETRA TECH

Conclusion

Based on the laboratory results and 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

Brittany Long,
Project Manager

Clair Gonzales, P.G.
Senior Project Manager

cc: James Kennedy – EOG
Todd Wells - EOG

Figures

SITE LOCATION

N
W E
S

Approximate Scale in Feet
0 10,416.5 20,833

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

STATE LOCATOR MAP

OVERVIEW MAP
AUDACIOUS TO FEARLESS
Property Located at coordinates 32.114900°, -103.648500°
LEA COUNTY, NEW MEXICO

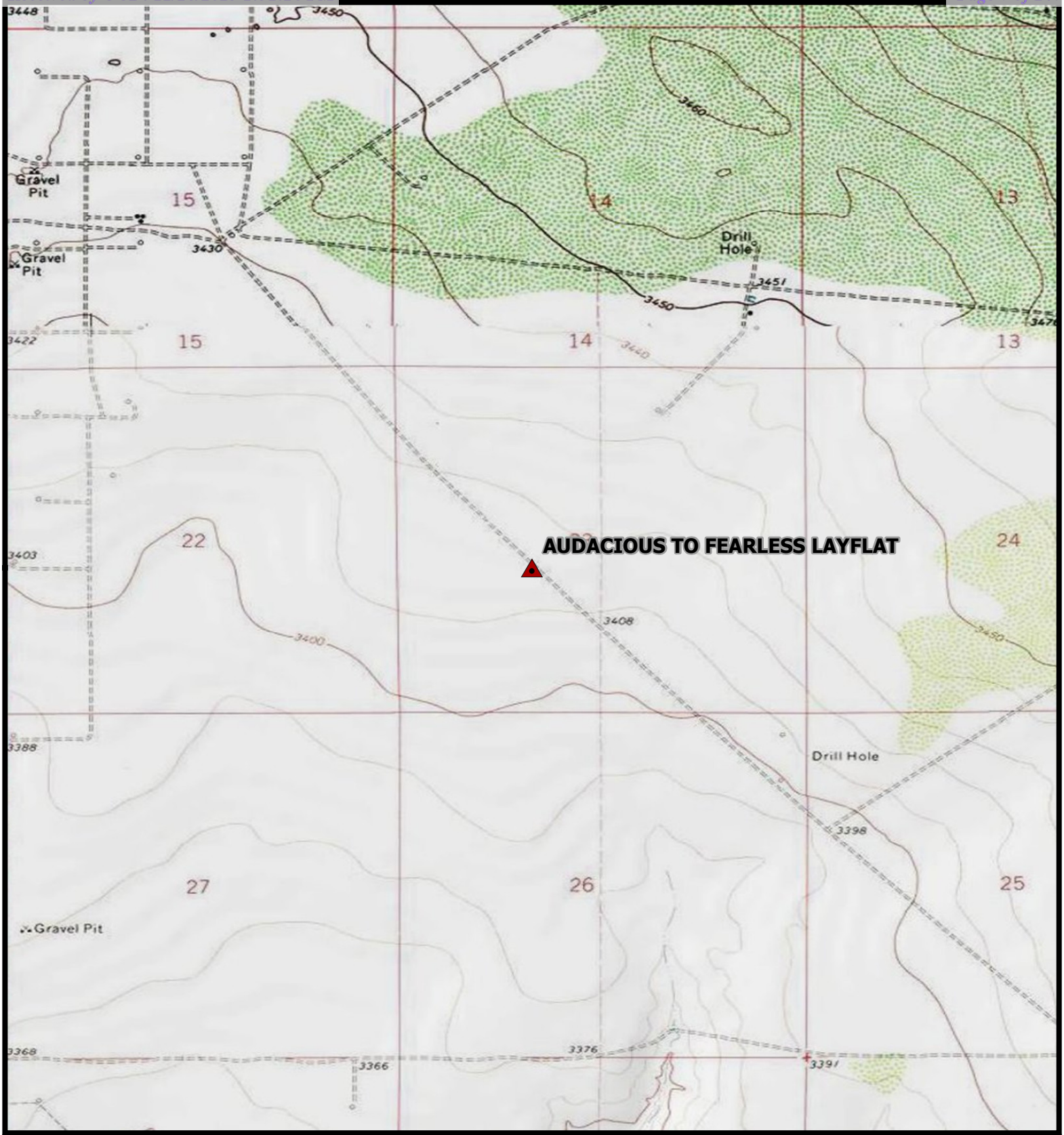
eog resources

TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-02133
Date: 03-31-2020
Drawn By: MLM

FIGURE 1

Document Path: H:\GIS\EOG RESOURCES\212C-MD-02133 AUDACIOUS TO FEARLESS\MXD\212C-MD-02133 AUDACIOUS TO FEARLESS FIG. 1.mxd



SITE LOCATION

N
W E
S

Approximate Scale in Feet
0 1,000 2,000

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TOPOGRAPHIC MAP
AUDACIOUS TO FEARLESS
Property Located at coordinates 32.114900°, -103.648500°
LEA COUNTY, NEW MEXICO

eog resources

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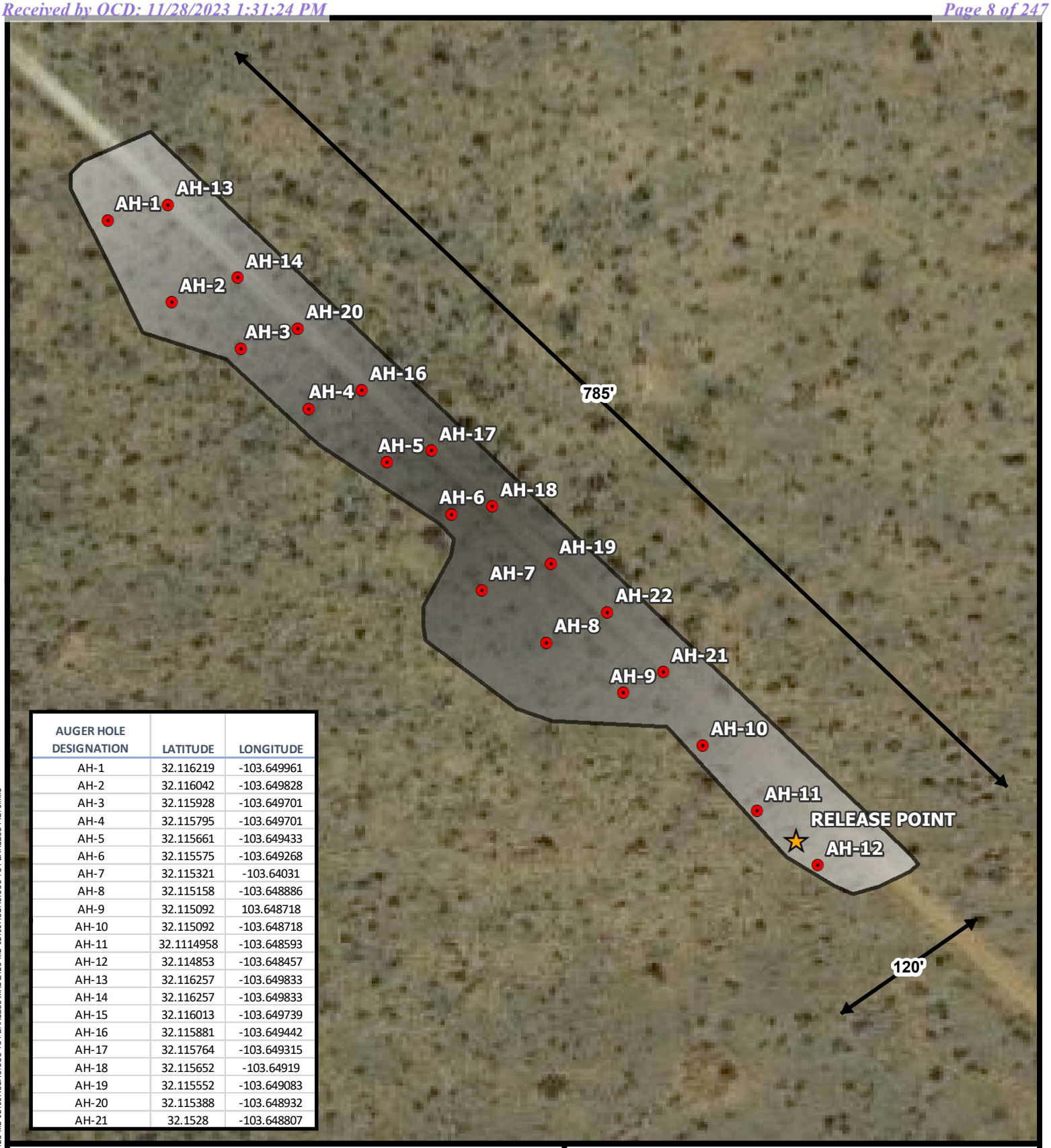
FIGURE 2

Document Path: H:\GIS\EOG RESOURCES\212C-MD-02133 AUDACIOUS TO FEARLESS\MXD\212C-MD-02133 AUDACIOUS TO FEARLESS FIG. 2.mxd



AUGER HOLE DESIGNATION	LATITUDE	LONGITUDE
AH-1	32.116219	-103.649961
AH-2	32.116042	-103.649828
AH-3	32.115928	-103.649701
AH-4	32.115795	-103.649701
AH-5	32.115661	-103.649433
AH-6	32.115575	-103.649268
AH-7	32.115321	-103.64031
AH-8	32.115158	-103.648886
AH-9	32.115092	103.648718
AH-10	32.115092	-103.648718
AH-11	32.1114958	-103.648593
AH-12	32.114853	-103.648457
AH-13	32.116257	-103.649833
AH-14	32.116257	-103.649833
AH-15	32.116013	-103.649739
AH-16	32.115881	-103.649442
AH-17	32.115764	-103.649315
AH-18	32.115652	-103.64919
AH-19	32.115552	-103.649083
AH-20	32.115388	-103.648932
AH-21	32.1528	-103.648807

AUGERHOLE SAMPLE LOCATIONS

RELEASE POINT

SPILL AREA

N
W E
S

0 50 100

Approximate Scale in Feet

Source: New Mexico". 32° 6'53.64"N, 103°38'54.60"W. **Google Earth**. February 21,2019. March 31, 2020.

SPILL ASSESSMENT MAP
AUDACIOUS TO FEARLESS
Property Located at coordinates 32.114900°, -103.648500°
LEA COUNTY, NEW MEXICO

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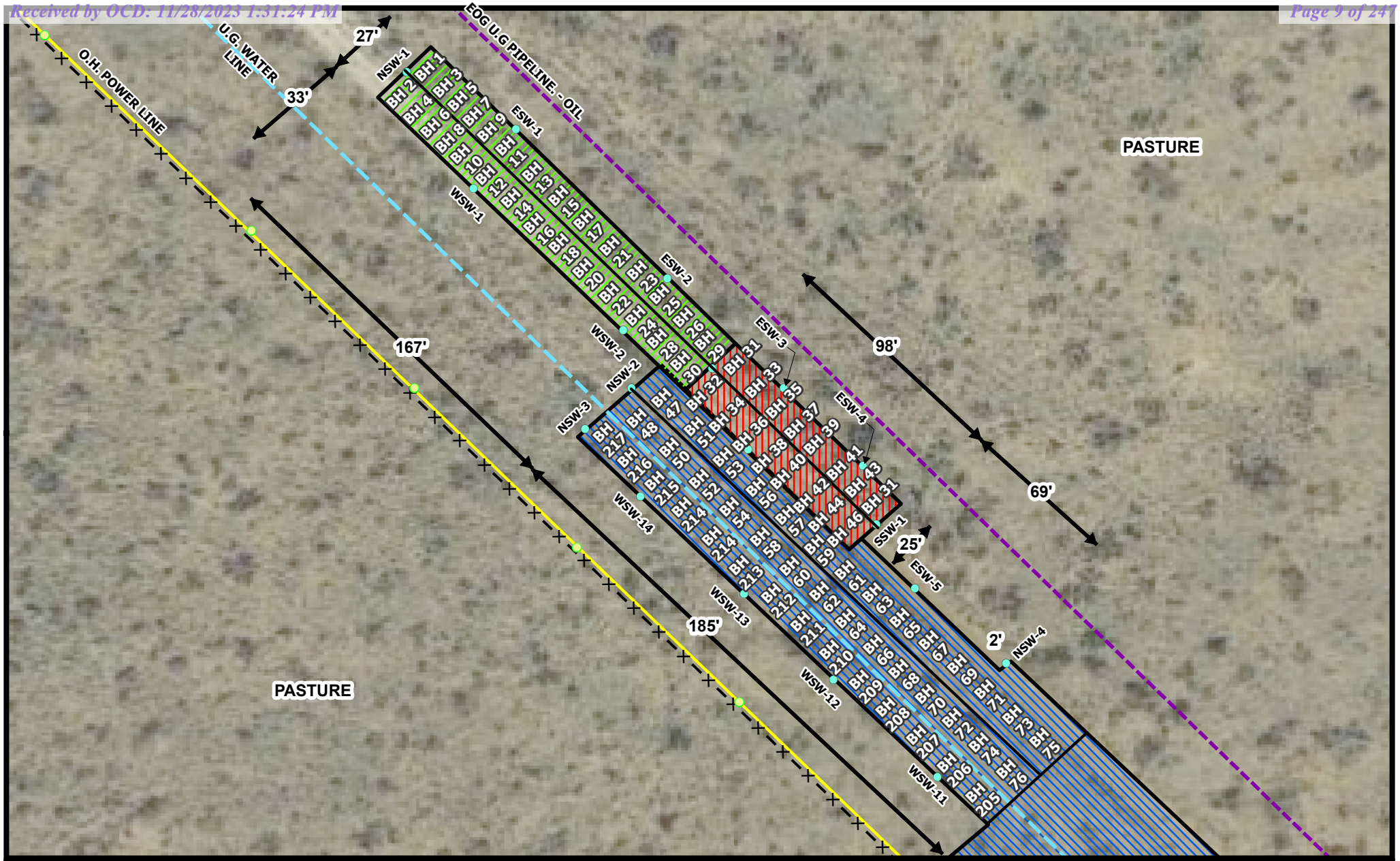
Project #: 212C-MD-02133
Date: 03-31-2020
Drawn By: MLM

FIGURE 3

Date: 3/31/2020 Document Path: H:\GIS\EOG RESOURCES\212C-MD-02133 AUDACIOUS TO FEARLESS\MXD\212C-MD-02133 AUDACIOUS TO FEARLESS FIG. 3.mxd



BH BOTTOM HOLE SAMPLE LOCATIONS
SIDEWALL SAMPLE LOCATIONS
POWER POLES
BURIED WATER LINE
BURIED PIPELINE
FENCELINE
O.H. POWER LINE

1.5' EXCAVATED DEPTH
4.0' EXCAVATED DEPTH
4.5' EXCAVATED DEPTH

N
W E
S

0 27.5 55
Approximate Scale in Feet

Source: New Mexico". 32° 6'53.64"N, 103°38'54.60"W. **Google Earth**. February 21,2019, March 31, 2020.

EXCAVATION AREA & DEPTH MAP
BOTTOM HOLES 1 - 75 & 205 - 217
AUDACIOUS TO FEARLESS
Property Located at coordinates 32.114900°, -103.648500°
LEA COUNTY, NEW MEXICO

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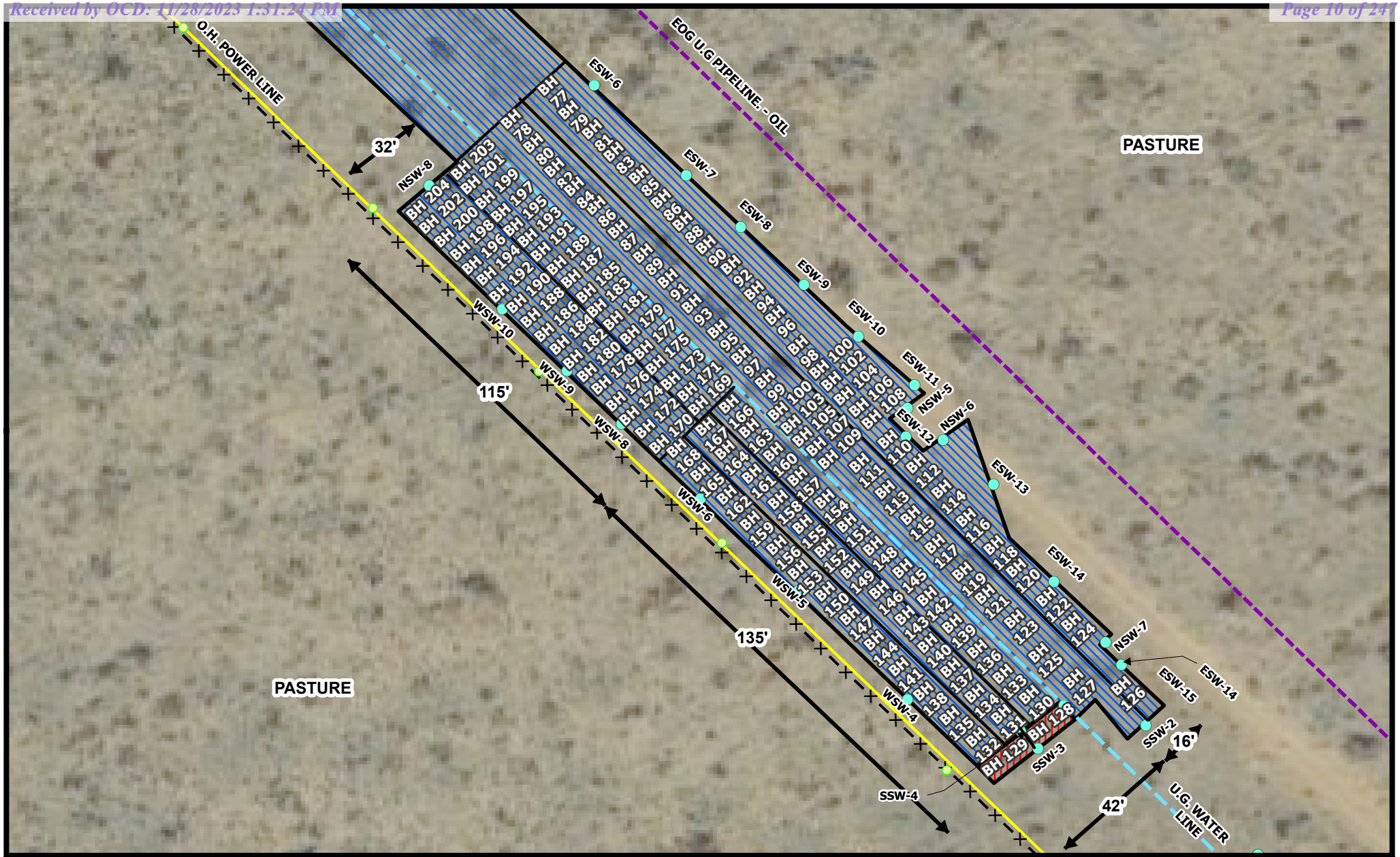
FIGURE 4A

Date: 8/12/2020 Document Path: H:\GIS\EOG RESOURCES\212C-MD-02133 AUDACIOUS TO FEARLESS\MXD\212C-MD-02133 AUDACIOUS TO FEARLESS FIG. 4.mxd



BH BOTTOM HOLE SAMPLE LOCATIONS
SIDEWALL SAMPLE LOCATIONS
POWER POLES
BURIED WATER LINE
BURIED PIPELINE
FENCELINE
O.H. POWER LINE

1.5' EXCAVATED DEPTH
4.0' EXCAVATED DEPTH
4.5' EXCAVATED DEPTH

N
W E
S

0 25 50
Approximate Scale in Feet

Source: New Mexico". 32° 6'53.64"N, 103°38'54.60"W. **Google Earth**. February 21,2019, March 31, 2020.

EXCAVATION AREA & DEPTH MAP
BOTTOM HOLES 76 - 204
AUDACIOUS TO FEARLESS
Property Located at coordinates 32.114900°, -103.648500°
LEA COUNTY, NEW MEXICO

eog resources

TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-02133
Date: 08-12-2020
Drawn By: MLM

FIGURE 4B

Date: 8/12/2020 Document Path: H:\GIS\EOG RESOURCES\212C-MD-02133 AUDACIOUS TO FEARLESS\MXD\212C-MD-02133 AUDACIOUS TO FEARLESS FIG. 4B.mxd

Tables

Table 1
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	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	ORO	Total						
AH-1	3/2/2020	0-1	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.96
	"	1-1.5	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.1
AH-2	3/2/2020	0-1	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
	"	1-1.5	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
AH-3	3/2/2020	0-1	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.84
	"	1-1.5	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.88
AH-4	3/2/2020	0-1	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
	"	1-1.5	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
	"	2-2.5	-	X	-	-	-	-	-	-	-	-	-	-	<10.1
AH-5	3/2/2020	0-1	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.0
	"	1-1.5	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
AH-6	3/2/2020	0-1	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.3
	"	1-1.5	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.92
AH-7	3/2/2020	0-1	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.96
	"	1-1.5	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<10.1
AH-8	3/2/2020	0-1	-		X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**2,960**
	"	1-1.5	-		X	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**2,480**
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	-	920
AH-9	3/2/2020	0-1	-		X	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**2,540**
	"	1-1.5	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	195
	"	2-2.5	-	X	-	-	-	-	-	-	-	-	-	-	19.4
AH-10	3/2/2020	0-1	-		X	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	**2,200**
	"	1-1.5	-		X	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	**946**
	"	2-2.5	-	X	-	-	-	-	-	-	-	-	-	-	36.7
	"	3-3.5	-	X	-	-	-	-	-	-	-	-	-	-	14.9
AH-11	3/2/2020	0-1	-		X	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**2,900**
	"	1-1.5	-		X	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**3,150**
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	-	**3,730**
	"	3-3.5	-		X	-	-	-	-	-	-	-	-	-	**1,070**

Table 1
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	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	ORO	Total						
AH-12	3/2/2020	0-1	-		X	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	**4,530**
	"	1-1.5	-		X	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	**4,030**
	"	2-2.5	-		X	-	-	-	-	-	-	-	-	-	**2,520**
	"	3-3.5	-	X	-	-	-	-	-	-	-	-	-	-	337
AH-13	3/2/2020	0-6"	-		X	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	**2,040**
AH-14	3/2/2020	0-6"	-		X	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**8,560**
AH-15	3/2/2020	0-6"	-		X	<50.0	68.8	<50.0	68.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**5,390**
AH-16	3/2/2020	0-6"	-		X	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**31,400**
AH-17	3/2/2020	0-6"	-		X	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**30,600**
AH-18	3/2/2020	0-6"	-		X	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**21,200**
AH-19	3/2/2020	0-6"	-		X	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**14,700**
AH-20	3/2/2020	0-6"	-		X	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**4,120**
AH-21	3/2/2020	0-6"	-		X	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	**17,700**

(-) Not Analyzed

Excavated

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-1	4/2/2020	1.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00199	12.4
BH-2	4/2/2020	1.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-3	4/2/2020	1.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-4	4/2/2020	1.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.7
BH-5	4/2/2020	1.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	9.94
BH-6	4/2/2020	1.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	12.9
BH-7	4/2/2020	1.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.94
BH-8	4/2/2020	1.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.4
BH-9	4/2/2020	1.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.96
BH-10	4/2/2020	1.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.96
BH-11	4/2/2020	1.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
BH-12	4/2/2020	1.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-13	4/2/2020	1.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.92
BH-14	4/2/2020	1.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.98
BH-15	4/2/2020	1.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<9.92
BH-16	4/2/2020	1.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.90
BH-17	4/2/2020	1.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.9
BH-18	4/2/2020	1.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.9
BH-19	4/2/2020	1.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	12.7
BH-20	4/2/2020	1.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	17.5
BH-21	4/2/2020	1.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	21.5
BH-22	4/2/2020	1.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	16.5
BH-23	4/2/2020	1.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	13.4
BH-24	4/2/2020	1.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.6
BH-25	4/2/2020	1.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.2
BH-26	4/8/2020	1.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.1
BH-27	4/2/2020	1.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	10.1
BH-28	4/8/2020	1.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.92
BH-29	4/2/2020	1.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<10.0
BH-30	4/8/2020	1.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.3
BH-31	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	579
BH-32	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	157
BH-33	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	39.7
BH-34	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	228
BH-35	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	222

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-36	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.2
BH-37	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	11.3
BH-38	4/8/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	17.2
BH-39	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<10.0
BH-40	4/8/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	13.9
BH-41	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.2
BH-42	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.0
BH-43	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	31.6
BH-44	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	32.7
BH-45	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	28.5
BH-46	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	26.2
BH-47	4/8/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	463
BH-48	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	509
BH-49	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	588
BH-50	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	515
BH-51	4/8/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5,850
BH-52	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	5,100
BH-53	4/8/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,510
BH-54	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,850
BH-55	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,520
BH-56	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00227	<0.00227	<0.00227	<0.00227	<0.00227	3,160
BH-57	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	4,140
BH-58	4/8/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	4,140
BH-59	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	3,970
BH-60	4/8/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	4,220
BH-61	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,970
BH-62	4/8/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	4,130
BH-63	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	3,820
BH-64	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	4,100
BH-65	4/8/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	4,050
BH-66	4/8/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5,060
BH-67	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,270
BH-68	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,320
BH-69	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,240
BH-70	4/8/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,220

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-71	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	3,340
BH-72	4/8/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,030
BH-73	4/8/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,020
BH-74	4/8/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,370
BH-75	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	176
BH-76	4/8/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,090
BH-77	4/10/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	2,740
BH-78	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,480
BH-79	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	2,150
BH-80	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,860
BH-81	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,280
BH-82	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,020
BH-83	4/10/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,420
BH-84	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	5,340
BH-85	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	5,280
BH-86	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,480
BH-87	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	5,350
BH-88	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,530
BH-89	4/10/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,380
BH-90	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,300
BH-91	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,080
BH-92	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	972
BH-93	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	3,040
BH-94	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,080
BH-95	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,300
BH-96	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,350
BH-97	4/10/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,710
BH-98	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,400
BH-99	4/10/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,340
BH-100	4/10/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,190
BH-101	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,840
BH-102	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,910
BH-103	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,480
BH-104	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,040
BH-105	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,800

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Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-106	4/10/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,710
BH-107	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,640
BH-108	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	460
BH-109	4/10/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	671
BH-110	4/10/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	85.0
BH-111	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	84.5
BH-112	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	851
BH-113	4/10/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	861
BH-114	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,550
BH-115	4/10/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,390
BH-116	4/10/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,450
BH-117	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1,190
BH-118	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,280
BH-119	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1,250
BH-120	4/10/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	666
BH-121	4/10/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	563
BH-122	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	175
BH-123	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	264
BH-124	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	796
BH-125	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	741
BH-126	4/10/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.4
BH-127	4/10/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
BH-128	4/14/2020	3.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	59.1
BH-129	4/14/2020	3.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	38.3
BH-130	4/14/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	726
BH-131	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	384
BH-132	4/14/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	188
BH-133	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	78.7
BH-134	4/14/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	269
BH-135	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	242
BH-136	4/14/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	221
BH-137	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	374
BH-138	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.8
BH-139	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	591
BH-140	4/14/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	644

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-141	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	573
BH-142	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	717
BH-143	4/14/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	321
BH-144	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	454
BH-145	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	403
BH-146	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	405
BH-147	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	479
BH-148	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,410
BH-149	4/14/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,000
BH-150	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,070
BH-151	4/14/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,490
BH-152	4/14/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,210
BH-153	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,370
BH-154	4/14/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	72.9
BH-155	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	111
BH-156	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<10.1
BH-157	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	69.6
BH-158	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	69.6
BH-159	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
BH-160	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,280
BH-161	4/14/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	917
BH-162	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,560
BH-163	4/14/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,940
BH-164	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,640
BH-165	4/14/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	997
BH-166	4/14/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,660
BH-167	4/14/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	275
BH-168	4/14/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,650
BH-169	4/16/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	939
BH-170	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	618
BH-171	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	518
BH-172	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	529
BH-173	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	25.2
BH-174	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	235
BH-175	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.1

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-176	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<9.90
BH-177	4/16/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.98
BH-178	4/16/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.4
BH-179	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-180	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.1
BH-181	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<9.88
BH-182	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.92
BH-183	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<9.96
BH-184	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.8
BH-185	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	280
BH-186	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	21.7
BH-187	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	28.8
BH-188	4/16/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<9.98
BH-189	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-190	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	24.8
BH-191	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.92
BH-192	4/16/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	78.2
BH-193	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	61.3
BH-194	4/16/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	420
BH-195	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	575
BH-196	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	585
BH-197	4/16/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	516
BH-198	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	215
BH-199	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	227
BH-200	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	317
BH-201	4/16/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	93.3
BH-202	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	91.5
BH-203	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	72.2
BH-204	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	113
BH-205	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.98
BH-206	4/16/2020	4.5'	-	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	97.9
BH-207	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	198
BH-208	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	38.1
BH-209	4/16/2020	4.5'	-	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	251

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-210	4/16/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	15.5
BH-211	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	19.3
BH-212	4/16/2020	4.5'	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	303
BH-213	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	455
BH-214	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	261
BH-215	4/16/2020	4.5'	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	45.4
BH-216	4/16/2020	4.5'	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.4
BH-217	4/16/2020	4.5'	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.92
N1SW	4/8/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	61.8
N2SW	4/8/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	62.4
N3SW	4/8/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	62.5
N4SW	4/10/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	18.1
N5SW	4/10/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	64.7
N6SW	4/10/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	63.7
N7SW	4/10/2020	-	-	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	**723**
N8SW	4/21/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.3
N8SW	4/24/2020	-	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	125
E1SW	4/8/2020	-	-	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<9.98
E2SW	4/8/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	292
E3SW	4/8/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	271
E4SW	4/8/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	13.9
E5SW	4/8/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	14.5
E6SW	4/8/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	24.5
E7SW	4/10/2020	-	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	79.4
E8SW	4/10/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	281
E9SW	4/10/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	**784**
E10SW	4/10/2020	-	-	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	434
E11SW	4/10/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	65.7
E12SW	4/10/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
E13SW	4/10/2020	-	-	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	**711**
E14SW	4/10/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	62.0
E15SW	4/10/2020	-	-	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	70.7
S1SW	4/8/2020	-	-	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	74.1
S2SW	4/10/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	75.2
S3SW	4/14/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	458
S3SW	4/21/2020	-	-	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.0

Table 2
EOG Resources
Audacious to Fearless
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
W1SW	4/8/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
W2SW	4/8/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	62.5
W3SW	4/14/2020	-	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
W3SW	4/21/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
W4SW	4/14/2020	-	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	16.4
W5SW	4/14/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	62.5
W6SW	4/14/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	107
W7SW	4/16/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	107
W8SW	4/16/2020	-	-	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	546
W9SW	4/16/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	393
W10SW	4/21/2020	-	-	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	124
W11SW	4/14/2020	-	-	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.90
W12SW	4/16/2020	-	-	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	26.3
W13SW	4/16/2020	-	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
W14SW	4/16/2020	-	-	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.92

(-) Not Analyzed

Photos

EOG Resources
Audacious to Fearless
Lea County, New Mexico

TETRA TECH

View of Remediation Activities

View of Remediation Activities

EOG Resources
Audacious to Fearless
Lea County, New Mexico

TETRA TECH

View of Remediation Activities

View of Remediation Activities

EOG Resources
Audacious to Fearless
Lea County, New Mexico

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Audacious to Fearless
Lea County, New Mexico

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Audacious to Fearless
Lea County, New Mexico

TETRA TECH

View of Remediation Activities

View of Remediation Activities

EOG Resources
Audacious to Fearless
Lea County, New Mexico

TETRA TECH

View of Remediation Activities

View of Remediation Activities

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	nAPP2333137302
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name James Kennedy	Contact Telephone 432-848-9146
Contact email james_kennedy@eogresources.com	Incident # *(assigned by OCD)* nAPP2333137302
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.114900 Longitude -103.648500
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Audacious to Fearless Layflat release	Site Type Pipeline release
Date Release Discovered 12-18-19	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
H	23	25S	32E	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) 475	Volume Recovered (bbls) 400
	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)
Lay flat line failure causing release.		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2333137302
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 released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, James Kennedy (EOG) called NMOCD (left message for Christina Hernandez or whomever at extension 111), 12-21-19	

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 not 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: _James F. Kennedy_____ Title: ___Env Specialist_____

Signature: _____James F. Kennedy_____ Date: _12/20/2019_____

email: ___james_kennedy@eogresouirces.com_____ Telephone: ____432-848-9146_____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

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: James Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/29/2023

State of New Mexico
Oil Conservation Division

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: James Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 11/29/2023

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

Closure Approved by: Nelson Velez Date: 03/11/2024

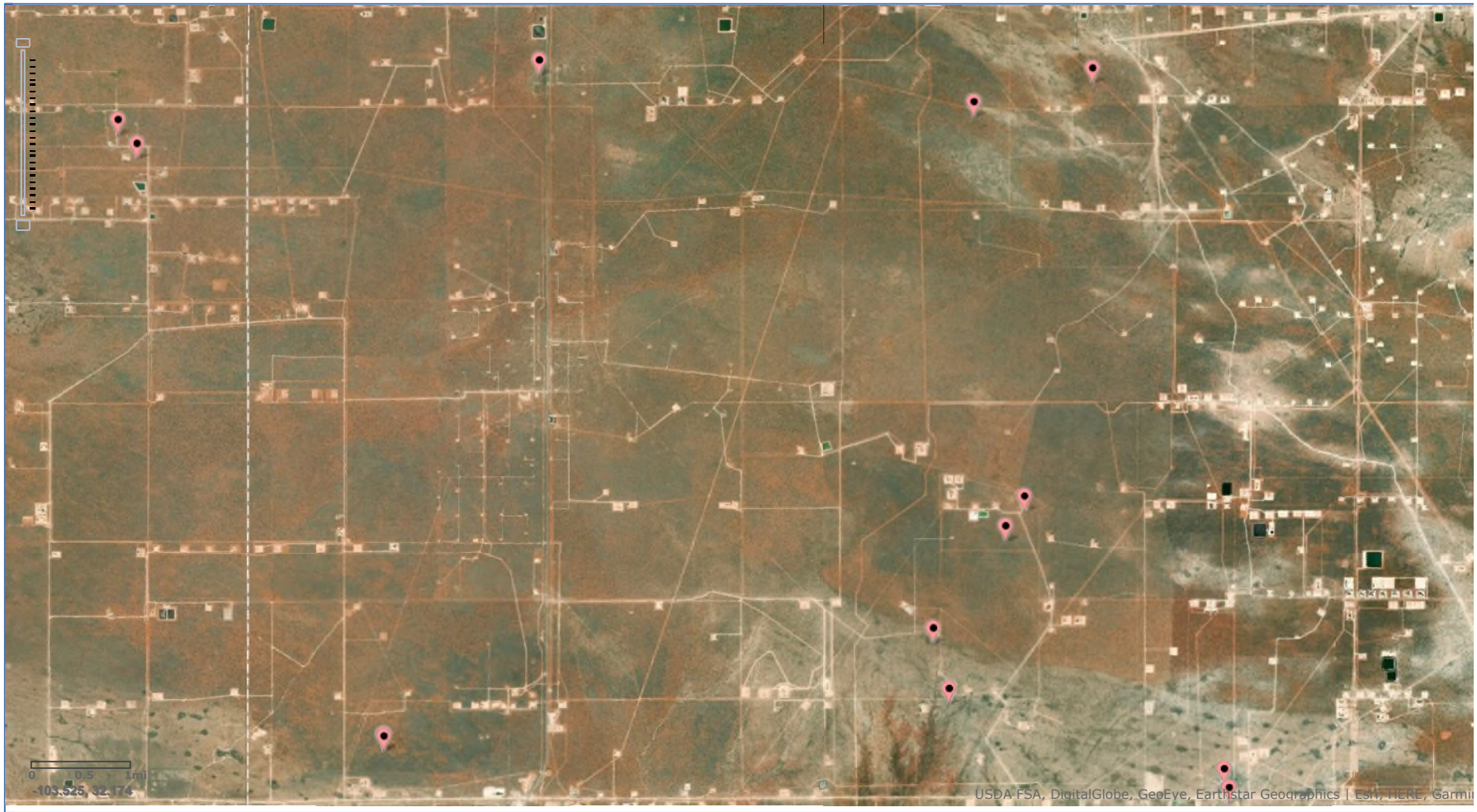
Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Appendix B

USGS science for a changing world

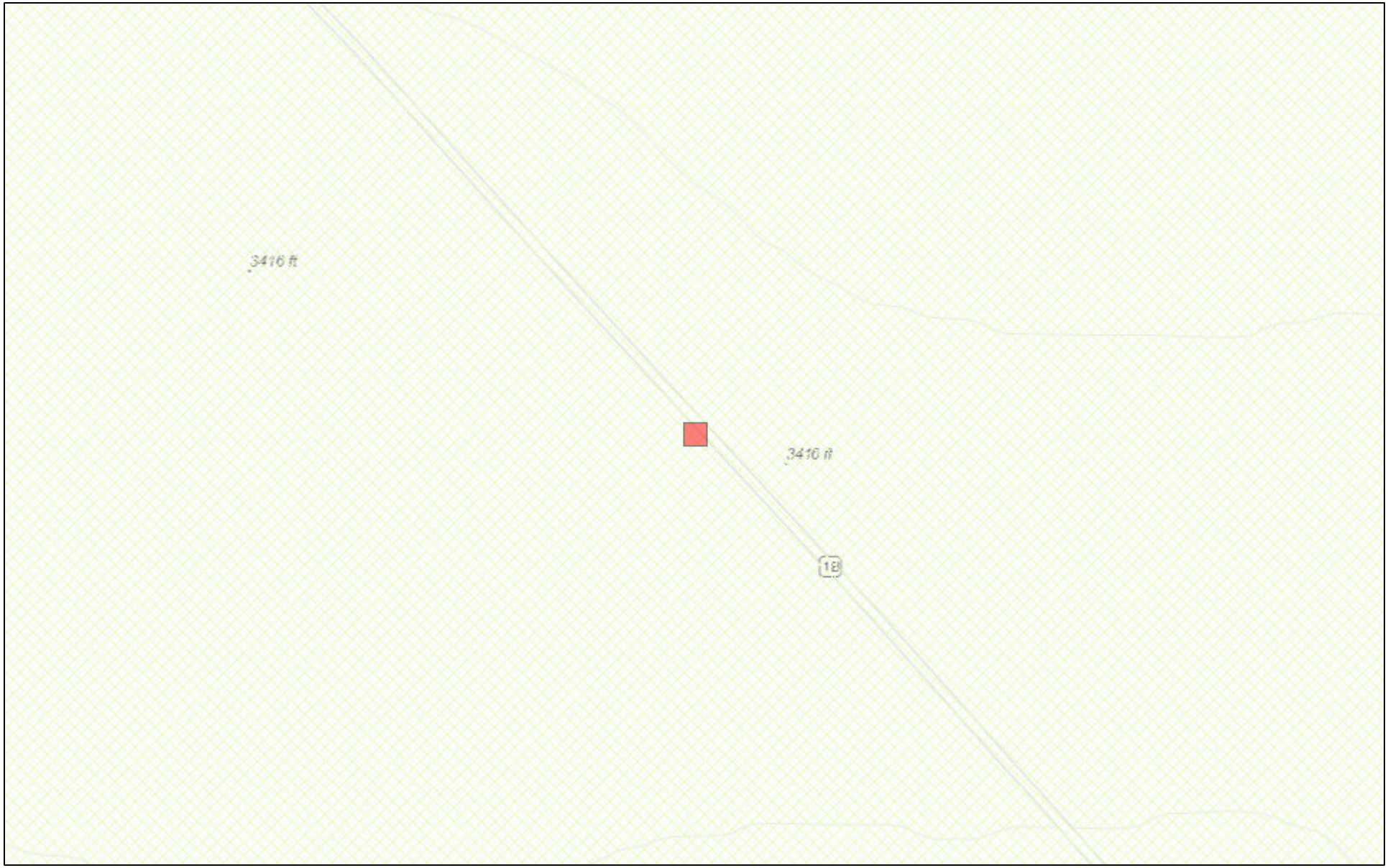
USGS Ho
Contact
Search U

National Water Information System: Mapper



Site Information

New Mexico NFHL Data



March 17, 2020

1:4,514

0 0.0375 0.075 0.15 mi

0 0.05 0.1 0.2 km

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

nmflood.org is made possible through a collaboration with NMDHSEM, EDAC, and FEMA
This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

National Water Information System: Web Interface

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320615103352601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

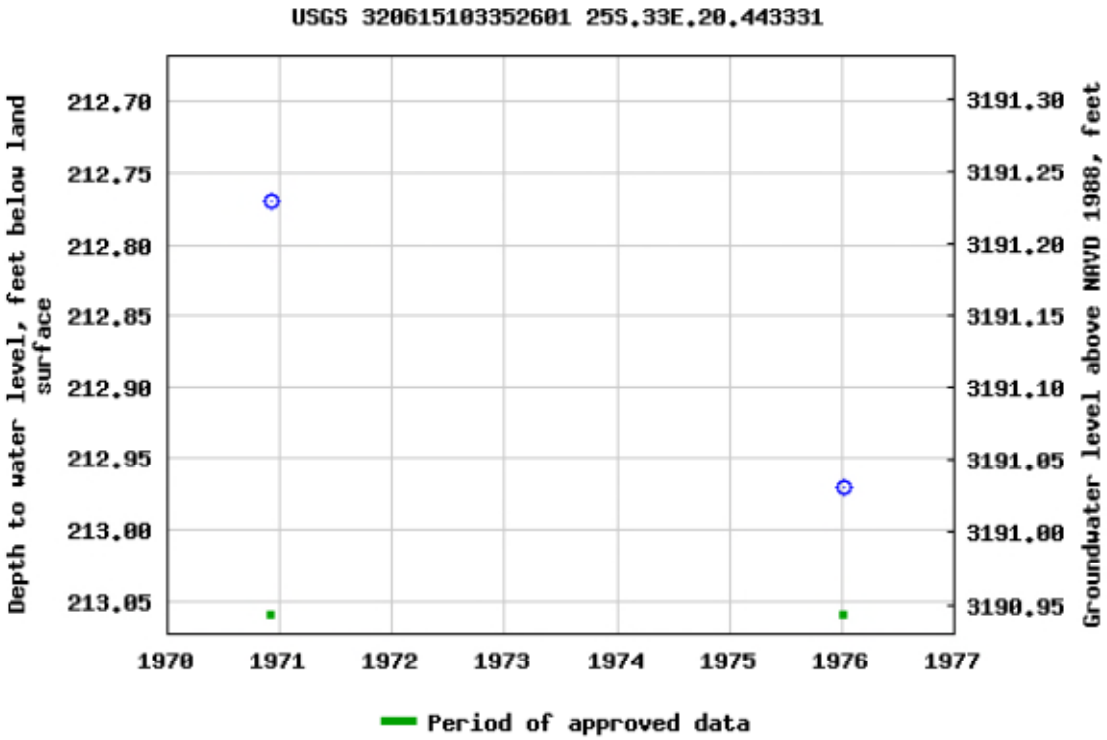
USGS 320615103352601 25S.33E.20.443331

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°06'15", Longitude 103°35'26" NAD27
Land-surface elevation 3,404 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-03-17 12:22:21 EDT
0.64 0.5 nadww01

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

PLSS Search:

Township: 25S **Range:** 32E

Water Well Data
Average Depth to Groundwater (ft)
EOG - Audacious to Fearless

24 South 31 East

6	5	4	3	2 205 160	1
7	8	9	10	11	12
18	17 74	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 474	34	35	36

24 South 32 East

6	5	4	3	2	1
7	8	9	10 20	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 290	34	35	36

24 South 33 East

6	5	4	3	2	1
7	8	9	10 20 22	11	12
18	17	16	15	14	13
19	20	21	22	23 208	24 16.9
30	29	28	27	26	25
31	32	33 70 93.2	34	35	36

25 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 390 290	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	20 212 204	21	22	23	24
30	29	28	27	26	25
31	32 290	33	34	35	36

25 South 33 East

6	5 118	4	3 172	2	1
7	8	9	10	11 140	12 200
18	17	16	15	14	13 185
19	20 200	21 120	22	23	24
30	29	28	27 125	26 110	25
31 190	32	33	34	35	36

26 South 31 East

6	5	4	3	2	1 335 287
7	8 295 275	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

26 South 32 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 333 180	22	23	24
30	29	28	27	26	25
31 295	32	33	34	35	36

26 South 33 East

6	5	4	3 180	2	1
7	8	9 106	10 124	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27 80	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

121 Abandoned Waterwell (recently measured)

Appendix C

Analytical Report 658368

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Audacious-Fearless

212C-MD-02133

04.09.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.09.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **658368**
Audacious-Fearless
Project Address: Lea, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658368. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 658368 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 658368

Tetra Tech- Midland, Midland, TX

Audacious-Fearless

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH 31	S	04.08.2020 00:00	4.5 ft	658368-001
BH 32	S	04.08.2020 00:00	4.5 ft	658368-002
BH 33	S	04.08.2020 00:00	4.5 ft	658368-003
BH 34	S	04.08.2020 00:00	4.5 ft	658368-004
BH 35	S	04.08.2020 00:00	4.5 ft	658368-005
BH 36	S	04.08.2020 00:00	4.5 ft	658368-006
BH 37	S	04.08.2020 00:00	4.5 ft	658368-007
BH 38	S	04.08.2020 00:00	4.5 ft	658368-008
BH 39	S	04.08.2020 00:00	4.5 ft	658368-009
BH 40	S	04.08.2020 00:00	4.5 ft	658368-010
BH 41	S	04.08.2020 00:00	4.5 ft	658368-011
BH 42	S	04.08.2020 00:00	4.5 ft	658368-012
BH 43	S	04.08.2020 00:00	4.5 ft	658368-013
BH 44	S	04.08.2020 00:00	4.5 ft	658368-014
BH 45	S	04.08.2020 00:00	4.5 ft	658368-015
BH 46	S	04.08.2020 00:00	4.5 ft	658368-016
BH 47	S	04.08.2020 00:00	4.5 ft	658368-017
BH 48	S	04.08.2020 00:00	4.5 ft	658368-018
BH 49	S	04.08.2020 00:00	4.5 ft	658368-019
BH 50	S	04.08.2020 00:00	4.5 ft	658368-020
BH 51	S	04.08.2020 00:00	4.5 ft	658368-021
BH 52	S	04.08.2020 00:00	4.5 ft	658368-022
BH 53	S	04.08.2020 00:00	4.5 ft	658368-023
BH 54	S	04.08.2020 00:00	4.5 ft	658368-024
BH 55	S	04.08.2020 00:00	4.5 ft	658368-025
BH 56	S	04.08.2020 00:00	4.5 ft	658368-026
BH 57	S	04.08.2020 00:00	4.5 ft	658368-027
BH 58	S	04.08.2020 00:00	4.5 ft	658368-028
BH 59	S	04.08.2020 00:00	4.5 ft	658368-029
BH 60	S	04.08.2020 00:00	4.5 ft	658368-030
BH 61	S	04.08.2020 00:00	4.5 ft	658368-031
BH 62	S	04.08.2020 00:00	4.5 ft	658368-032
BH 63	S	04.08.2020 00:00	4.5 ft	658368-033
BH 64	S	04.08.2020 00:00	4.5 ft	658368-034
BH 65	S	04.08.2020 00:00	4.5 ft	658368-035
BH 66	S	04.08.2020 00:00	4.5 ft	658368-036
BH 67	S	04.08.2020 00:00	4.5 ft	658368-037
BH 68	S	04.08.2020 00:00	4.5 ft	658368-038
BH 69	S	04.08.2020 00:00	4.5 ft	658368-039
BH 70	S	04.08.2020 00:00	4.5 ft	658368-040
BH 71	S	04.08.2020 00:00	4.5 ft	658368-041
BH 72	S	04.08.2020 00:00	4.5 ft	658368-042
BH 73	S	04.08.2020 00:00	4.5 ft	658368-043

Sample Cross Reference 658368

Tetra Tech- Midland, Midland, TX

Audacious-Fearless

BH 74	S	04.08.2020 00:00	4.5 ft	658368-044
BH 75	S	04.08.2020 00:00	4.5 ft	658368-045
BH 76	S	04.08.2020 00:00	4.5 ft	658368-046
N1SW	S	04.08.2020 00:00	ft	658368-047
E1SW	S	04.08.2020 00:00	ft	658368-048
E2SW	S	04.08.2020 00:00	ft	658368-049
E3SW	S	04.08.2020 00:00	ft	658368-050
E4SW	S	04.08.2020 00:00	ft	658368-051
E5SW	S	04.08.2020 00:00	ft	658368-052
E6SW	S	04.08.2020 00:00	ft	658368-053
N2SW	S	04.08.2020 00:00	ft	658368-054
N3SW	S	04.08.2020 00:00	ft	658368-055
S1SW	S	04.08.2020 00:00	ft	658368-056
W1SW	S	04.08.2020 00:00	ft	658368-057
W2SW	S	04.08.2020 00:00	ft	658368-058
BH 26, 1.5'	S	04.08.2020 00:00	1.5 ft	658368-059
BH 28, 1.5'	S	04.08.2020 00:00	1.5 ft	658368-060
BH 30, 1.5'	S	04.08.2020 00:00	1.5 ft	658368-061

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Audacious-Fearless

Project ID: *212C-MD-02133*
Work Order Number(s): *658368*

Report Date: *04.09.2020*
Date Received: *04.08.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122412 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122415 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122483 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122484 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-001		658368-002		658368-003		658368-004		658368-005		658368-006	
	Field Id:	BH 31		BH 32		BH 33		BH 34		BH 35		BH 36	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.08.2020 22:07		04.08.2020 22:28		04.08.2020 22:48		04.08.2020 23:09		04.08.2020 23:29		04.08.2020 23:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00397	0.00397	<0.00401	0.00401	<0.00401	0.00401	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00	
	Analyzed:	04.08.2020 17:36		04.08.2020 17:42		04.08.2020 17:47		04.08.2020 17:53		04.08.2020 17:58		04.08.2020 18:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		579	9.98	157	10.0	39.7	10.0	228	9.94	222	9.96	11.2	10.1
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30	
	Analyzed:	04.08.2020 17:55		04.08.2020 18:16		04.08.2020 18:57		04.08.2020 19:17		04.08.2020 19:37		04.08.2020 19:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<49.8	49.8	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<49.8	49.8	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<49.8	49.8	<49.9	49.9	<49.9	49.9
Total TPH		<50.2	50.2	<49.8	49.8	<50.1	50.1	<49.8	49.8	<49.9	49.9	<49.9	49.9

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested		658368-007		658368-008		658368-009		658368-010		658368-011		658368-012	
	Field Id:	BH 37		BH 38		BH 39		BH 40		BH 41		BH 42	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 18:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00	
	Analyzed:	04.09.2020 00:10		04.08.2020 18:03		04.08.2020 19:24		04.08.2020 19:45		04.08.2020 20:05		04.08.2020 20:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00404	0.00404	<0.00397	0.00397	<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00202	0.00202	<0.00202	0.00202	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.08.2020 18:09		04.08.2020 18:15		04.08.2020 18:20		04.08.2020 18:53		04.08.2020 19:10		04.08.2020 19:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		11.3	9.98	17.2	10.0	<10.0	10.0	13.9	9.94	12.2	9.98	<10.0	10.0
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30	
	Analyzed:	04.08.2020 20:18		04.08.2020 20:39		04.08.2020 20:59		04.08.2020 21:19		04.08.2020 21:39		04.08.2020 22:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2
Total TPH		<49.8	49.8	<50.0	50.0	<49.8	49.8	<50.0	50.0	<50.1	50.1	<50.2	50.2

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-013		658368-014		658368-015		658368-016		658368-017		658368-018	
	Field Id:	BH 43		BH 44		BH 45		BH 46		BH 47		BH 48	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00	
	Analyzed:	04.08.2020 20:46		04.08.2020 21:06		04.08.2020 21:27		04.08.2020 21:47		04.08.2020 22:07		04.08.2020 23:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
m,p-Xylenes		<0.00396	0.00396	<0.00402	0.00402	<0.00404	0.00404	<0.00404	0.00404	<0.00404	0.00404	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.08.2020 19:21		04.08.2020 19:26		04.08.2020 19:31		04.08.2020 19:48		04.08.2020 19:53		04.08.2020 19:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		31.6	10.1	32.7	10.1	28.5	10.0	26.2	9.98	463	9.92	509	9.90
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30	
	Analyzed:	04.08.2020 17:55		04.08.2020 18:16		04.08.2020 18:57		04.08.2020 19:17		04.08.2020 19:37		04.08.2020 19:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.3	50.3	<50.1	50.1
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.3	50.3	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.3	50.3	<50.1	50.1
Total TPH		<50.2	50.2	<49.8	49.8	<49.9	49.9	<49.9	49.9	<50.3	50.3	<50.1	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-019		658368-020		658368-021		658368-022		658368-023		658368-024	
	Field Id:	BH 49		BH 50		BH 51		BH 52		BH 53		BH 54	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00		04.08.2020 17:00	
	Analyzed:	04.08.2020 23:29		04.08.2020 23:49		04.09.2020 00:10		04.09.2020 00:30		04.09.2020 00:51		04.09.2020 01:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.08.2020 20:04		04.08.2020 20:10		04.08.2020 20:26		04.08.2020 20:32		04.08.2020 20:48		04.08.2020 20:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		588	9.80	515	9.96	5850	49.4	5100	49.7	3510	50.1	2850	49.8
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30		04.08.2020 17:30	
	Analyzed:	04.08.2020 20:18		04.08.2020 20:39		04.08.2020 20:59		04.08.2020 21:19		04.08.2020 21:39		04.08.2020 22:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8
Total TPH		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.8	49.8

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-025		658368-026		658368-027		658368-028		658368-029		658368-030	
	Field Id:	BH 55		BH 56		BH 57		BH 58		BH 59		BH 60	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 17:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 01:31		04.09.2020 03:54		04.09.2020 04:15		04.09.2020 04:35		04.09.2020 04:55		04.09.2020 05:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00227	0.00227	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00227	0.00227	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00227	0.00227	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
m,p-Xylenes		<0.00400	0.00400	<0.00455	0.00455	<0.00403	0.00403	<0.00402	0.00402	<0.00403	0.00403	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00227	0.00227	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00227	0.00227	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00227	0.00227	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.08.2020 20:59		04.08.2020 21:05		04.08.2020 21:10		04.08.2020 21:15		04.08.2020 21:21		04.09.2020 08:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3520	49.9	3160	49.6	4140	49.9	4140	49.8	3970	49.9	4220	49.7
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45	
	Analyzed:	04.09.2020 00:22		04.09.2020 01:24		04.09.2020 01:44		04.09.2020 02:04		04.09.2020 02:25		04.09.2020 02:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.3	50.3
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.3	50.3
Total TPH		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-031		658368-032		658368-033		658368-034		658368-035		658368-036	
	Field Id:	BH 61		BH 62		BH 63		BH 64		BH 65		BH 66	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 05:36		04.09.2020 05:57		04.09.2020 06:17		04.09.2020 06:37		04.09.2020 06:58		04.09.2020 08:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00404	0.00404	<0.00402	0.00402	<0.00404	0.00404	<0.00400	0.00400
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 08:36		04.09.2020 08:42		04.09.2020 08:48		04.09.2020 08:53		04.09.2020 09:11		04.09.2020 09:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3970	50.1	4130	50.0	3820	49.8	4100	49.6	4050	49.9	5060	49.9
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45	
	Analyzed:	04.09.2020 03:06		04.09.2020 03:26		04.09.2020 03:46		04.09.2020 04:07		04.09.2020 04:47		04.09.2020 05:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.0	50.0
Diesel Range Organics (DRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.0	50.0
Total TPH		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-037		658368-038		658368-039		658368-040		658368-041		658368-042	
	Field Id:	BH 67		BH 68		BH 69		BH 70		BH 71		BH 72	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 08:40		04.09.2020 09:00		04.09.2020 09:21		04.09.2020 09:41		04.09.2020 10:02		04.09.2020 10:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398	<0.00397	0.00397	<0.00403	0.00403	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 09:23		04.09.2020 09:29		04.09.2020 09:35		04.09.2020 09:41		04.09.2020 09:59		04.09.2020 10:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3270	49.5	2320	49.9	3240	50.4	3220	49.7	3340	50.1	3030	49.9
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45	
	Analyzed:	04.09.2020 05:28		04.09.2020 05:48		04.09.2020 06:09		04.09.2020 06:29		04.09.2020 06:49		04.09.2020 07:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.1	50.1	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9
Diesel Range Organics (DRO)		<49.8	49.8	<50.1	50.1	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.1	50.1	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9
Total TPH		<49.8	49.8	<50.1	50.1	<50.1	50.1	<50.3	50.3	<49.8	49.8	<49.9	49.9

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658368-043		658368-044		658368-045		658368-046		658368-047		658368-048	
	Field Id:	BH 73		BH 74		BH 75		BH 76		N1SW		E1SW	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 10:42		04.09.2020 11:03		04.09.2020 11:23		04.09.2020 05:16		04.09.2020 05:36		04.09.2020 05:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198
m,p-Xylenes		<0.00399	0.00399	<0.00399	0.00399	<0.00398	0.00398	<0.00398	0.00398	<0.00397	0.00397	<0.00396	0.00396
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00198	0.00198
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 10:24		04.09.2020 10:31		04.09.2020 10:37		04.09.2020 10:44		04.09.2020 10:50		04.09.2020 10:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3020	49.8	3370	49.8	176	9.88	3090	49.5	61.8	9.90	<9.98	9.98
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45	
	Analyzed:	04.09.2020 07:30		04.09.2020 07:50		04.09.2020 00:22		04.09.2020 01:24		04.09.2020 01:44		04.09.2020 02:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.9	49.9
Diesel Range Organics (DRO)		<49.8	49.8	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.9	49.9
Total TPH		<49.8	49.8	<50.1	50.1	<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.9	49.9

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested	*Lab Id:*	658368-049		658368-050		658368-051		658368-052		658368-053		658368-054	
	Field Id:	E2SW		E3SW		E4SW		E5SW		E6SW		N2SW	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 06:17		04.09.2020 06:37		04.09.2020 06:58		04.09.2020 07:18		04.09.2020 07:39		04.09.2020 07:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00399	0.00399	<0.00397	0.00397	<0.00398	0.00398	<0.00402	0.00402	<0.00400	0.00400
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 11:03		04.08.2020 21:54		04.08.2020 22:12		04.08.2020 22:18		04.08.2020 22:24		04.08.2020 22:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		292	9.92	271	9.92	13.9	9.94	14.5	9.90	24.5	9.98	62.4	9.92
TPH By SW8015 Mod	*Extracted:*	04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45	
	Analyzed:	04.09.2020 02:25		04.09.2020 02:45		04.09.2020 03:06		04.09.2020 03:26		04.09.2020 03:46		04.09.2020 04:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.1	50.1
Diesel Range Organics (DRO)		<50.1	50.1	<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.1	50.1
Total TPH		<50.1	50.1	<50.3	50.3	<50.1	50.1	<50.2	50.2	<50.3	50.3	<50.1	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested		658368-055		658368-056		658368-057		658368-058		658368-059		658368-060	
	Field Id:	N3SW		S1SW		W1SW		W2SW		BH 26, 1.5'		BH 28, 1.5'	
	Depth:									1.5- ft		1.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00		04.08.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.09.2020 08:19		04.09.2020 09:21		04.09.2020 09:41		04.09.2020 10:02		04.09.2020 10:22		04.09.2020 10:42	
	Units/RL:	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	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00402	0.00402	<0.00400	0.00400	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00		04.08.2020 18:00	
	Analyzed:	04.08.2020 22:48		04.08.2020 22:54		04.08.2020 22:59		04.08.2020 23:05		04.08.2020 23:11		04.08.2020 23:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		62.5	9.88	74.1	9.98	<10.0	10.0	62.5	10.0	<10.1	10.1	<9.92	9.92
TPH By SW8015 Mod	*Extracted:*	04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45		04.08.2020 17:45	
	Analyzed:	04.09.2020 04:47		04.09.2020 05:08		04.09.2020 05:28		04.09.2020 05:48		04.09.2020 06:09		04.09.2020 06:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<50.2	50.2	<50.1	50.1	<50.1	50.1	<49.9	49.9
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<50.2	50.2	<50.1	50.1	<50.1	50.1	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<50.2	50.2	<50.1	50.1	<50.1	50.1	<49.9	49.9
Total TPH		<50.2	50.2	<49.8	49.8	<50.2	50.2	<50.1	50.1	<50.1	50.1	<49.9	49.9

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658368

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Wed 04.08.2020 15:21
Report Date: 04.09.2020 15:39
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	658368-061					
	Field Id:	BH 30, 1.5'					
	Depth:	1.5- ft					
	Matrix:	SOIL					
	Sampled:	04.08.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	04.08.2020 18:00					
	Analyzed:	04.09.2020 11:03					
	Units/RL:	mg/kg RL					
Benzene		<0.00199 0.00199					
Toluene		<0.00199 0.00199					
Ethylbenzene		<0.00199 0.00199					
m,p-Xylenes		<0.00398 0.00398					
o-Xylene		<0.00199 0.00199					
Total Xylenes		<0.00199 0.00199					
Total BTEX		<0.00199 0.00199					
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.08.2020 18:00					
	Analyzed:	04.08.2020 23:35					
	Units/RL:	mg/kg RL					
Chloride		10.3 9.98					
TPH By SW8015 Mod	***Extracted:***	04.08.2020 17:45					
	Analyzed:	04.09.2020 06:49					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2					
Diesel Range Organics (DRO)		<50.2 50.2					
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2					
Total TPH		<50.2 50.2					

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Jessica Kramer
Project Manager

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

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless

Work Orders: 658368

Project ID: 212C-MD-02133

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Audacious-Fearless

Work Order #: 658368 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.08.2020 **Date Analyzed:** 04.08.2020

Lab Batch ID: 3122416 **Sample:** 7700826-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	100	98.8	99	100	98.3	98	1	90-110	20	

Analyst: MAB **Date Prepared:** 04.08.2020 **Date Analyzed:** 04.08.2020

Lab Batch ID: 3122419 **Sample:** 7700866-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	258	103	250	260	104	1	90-110	20	

Analyst: MAB **Date Prepared:** 04.08.2020 **Date Analyzed:** 04.09.2020

Lab Batch ID: 3122490 **Sample:** 7700869-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	260	104	250	261	104	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Audacious-Fearless

Work Order #: 658368 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.08.2020 **Date Analyzed:** 04.08.2020

Lab Batch ID: 3122420 **Sample:** 7700870-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	259	104	250	262	105	1	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Audacious-Fearless

Work Order # : 658368 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122416 **QC- Sample ID:** 658302-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.08.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	109	200	325	108	200	320	106	2	90-110	20	

Lab Batch ID: 3122416 **QC- Sample ID:** 658347-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.08.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.1	201	217	108	201	216	107	0	90-110	20	

Lab Batch ID: 3122419 **QC- Sample ID:** 658368-010 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.08.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	13.9	199	223	105	199	223	105	0	90-110	20	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious-Fearless

Work Order # : 658368 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122419 **QC- Sample ID:** 658368-020 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.08.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	515	200	730	108	200	730	108	0	90-110	20	

Lab Batch ID: 3122420 **QC- Sample ID:** 658368-050 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.08.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	271	199	488	109	199	487	109	0	90-110	20	

Lab Batch ID: 3122420 **QC- Sample ID:** 658368-060 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.08.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<9.94	199	213	107	199	214	108	0	90-110	20	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious-Fearless

Work Order # : 658368 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122490 **QC- Sample ID:** 658368-030 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.09.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	4220	200	4440	110	198	4410	96	1	90-110	20	

Lab Batch ID: 3122490 **QC- Sample ID:** 658368-040 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.09.2020 **Date Prepared:** 04.08.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	3220	202	3420	99	202	3440	109	1	90-110	20	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

6583608 A.L

Analysis Request of Chain of Custody Record

Page 1 of 2

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Loganda

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 31 (4.5' bgs)	4/8			X			X		1	N	X		X												X							
	BH 32																																
	BH 33																																
	BH 34																																
	BH 35																																
	BH 36																																
	BH 37																																
	BH 38																																
	BH 39																																
	BH 40																																

Relinquished by: Date: 4/8/20 Time: 15:21

Received by: Date: 4/8/20 Time: 1521

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 5.6

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

A.L.

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Page 2 of 8

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location (county, state): Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Legarda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH 41 (4.5'-6.5')	4/8			X			X		1	N	X		X											X						
	BH 42																														
	BH 43																														
	BH 44																														
	BH 45																														
	BH 46																														
	BH 47																														
	BH 48																														
	BH 49																														
	BH 50																														

Relinquished by: Date: 4/8/20 Time: 15:21

Received by: Date: 4/8/20 Time: 1521

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature: 5.6

REMARKS:

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

A.L.

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

E583683 7

Page X of X

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location (county, state): Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Laguarda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# 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
	BH 51	4/8		X				X		1	N	X		X											X					
	BH 52	"		"				"		"	"	"		"											"					
	BH 53	"		"				"		"	"	"		"											"					
	BH 54	"		"				"		"	"	"		"											"					
	BH 55	"		"				"		"	"	"		"											"					
	BH 56	"		"				"		"	"	"		"											"					
	BH 57	"		"				"		"	"	"		"											"					
	BH 58	"		"				"		"	"	"		"											"					
	BH 59	"		"				"		"	"	"		"											"					
	BH 60	"		"				"		"	"	"		"											"					

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/9/20	15:21	[signature]	4/18/20	15:21

LAB USE ONLY

Sample Temperature: 5.4

REMARKS:

- ☐ STANDARD A.L.
- ☒ RUSH: Same Day (24hr) 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Page 4 of 7

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG	Site Manager: Mike Carmona
Project Name: Audacious – Fearless	
Project Location: (county, state) Lea, NM	Project #: 212C-MD-02133
Invoice to: EOG – James Kennedy	
Receiving Laboratory: Xenco	Sampler Signature: Tony Lagarda
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 61 (4.5' bgs)	4/8			X			X		1	N	X		X												X							
	BH 62																																
	BH 63																																
	BH 64																																
	BH 65																																
	BH 66																																
	BH 67																																
	BH 68																																
	BH 69																																
	BH 70																																

Relinquished by:	Date:	Time:	Received by:
	4/8/20	15:21	4/8/20 15:21
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY

Sample Temperature 5.6

REMARKS:

- ☐ STANDARD A.L.
- ☒ RUSH: Same Day ~~24 hr~~ 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

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Lot 83168 5 A.L.7

Analysis Request of Chain of Custody Record

Page X of 8

Tetra Tech, Inc.

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

Client Name: EOG	Site Manager: Mike Carmona
Project Name: Audacious - Fearless	
Project Location: (county, state) Lea, NM	Project #: 212C-MD-02133
Invoice to: ~~X~~ A.L. EOG - James Kennedy	
Receiving Laboratory: Xenco	Sampler Signature: Tony Laguardia
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	BH 71 (4.5' bgs)	4/8			X			X		1	N
	BH 72										
	BH 73										
	BH 74										
	BH 75										
	BH 76										
	NISW										
	E1SW										
	E2SW										
	E3SW										

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
X		X												X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	4/8/20	15:21	[signature]	4/8/20	15:21
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 5.6

REMARKS:

- ☐ STANDARD A.L.
- ☒ RUSH: Same Day (24 hr) 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Page X of 8

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG	Site Manager: Mike Carmona
Project Name: Audacious – Fearless	
Project Location: (county, state) Lea, NM	Project #: 212C-MD-02133
Invoice to: EOG – James Kennedy	
Receiving Laboratory: Xenco	Sampler Signature: Tony Vaquera
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	E4 SW	4/8			X			X		1	N
	E5 SW										
	E6 SW										
	N2 SW										
	N3 SW										
	S1 SW										
	W1 SW										
	W2 SW										

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
X		X												X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	4/8/20	15:21		4/8/20	15:21
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 5.6

REMARKS:

- ☐ STANDARD A.L.
- ☒ RUSH: Same Day ~~24 hr~~ 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Page 7 of 7

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Loguardo

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)
	BH 26 1.5'	4/8			X				X			1	N
	BH 28 1.5'	4/8			X				X			1	N
	BH 30 1.5'	4/8			X				X			1	N

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
	X		X												X								
	X		X												X								
	X		X												X								

Relinquished by: Date: 4/8/20 Time: 1521

Received by: Date: 4/8/20 Time: 1521

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 5.1c

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 04.08.2020 03.21.00 PM

Work Order #: 658368

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)?	5.6
#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)?	**No**
#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: Elizabeth McClellan Date: 04.08.2020

Checklist reviewed by: Jessica Kramer Date: 04.09.2020

Jessica Kramer

Analytical Report 658616

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Audacious -Fearless

212C-MD-02133

04.14.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.14.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **658616**
Audacious -Fearless
Project Address: Lea, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658616. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 658616 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 658616

Tetra Tech- Midland, Midland, TX

Audacious -Fearless

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH77	S	04.10.2020 00:00	4.5 ft	658616-001
BH78	S	04.10.2020 00:00	4.5 ft	658616-002
BH79	S	04.10.2020 00:00	4.5 ft	658616-003
BH80	S	04.10.2020 00:00	4.5 ft	658616-004
BH81	S	04.10.2020 00:00	4.5 ft	658616-005
BH82	S	04.10.2020 00:00	4.5 ft	658616-006
BH83	S	04.10.2020 00:00	4.5 ft	658616-007
BH84	S	04.10.2020 00:00	4.5 ft	658616-008
BH85	S	04.10.2020 00:00	4.5 ft	658616-009
BH86	S	04.10.2020 00:00	4.5 ft	658616-010
BH87	S	04.10.2020 00:00	4.5 ft	658616-011
BH88	S	04.10.2020 00:00	4.5 ft	658616-012
BH89	S	04.10.2020 00:00	4.5 ft	658616-013
BH90	S	04.10.2020 00:00	4.5 ft	658616-014
BH91	S	04.10.2020 00:00	4.5 ft	658616-015
BH92	S	04.10.2020 00:00	4.5 ft	658616-016
BH93	S	04.10.2020 00:00	4.5 ft	658616-017
BH94	S	04.10.2020 00:00	4.5 ft	658616-018
BH95	S	04.10.2020 00:00	4.5 ft	658616-019
BH96	S	04.10.2020 00:00	4.5 ft	658616-020
BH97	S	04.10.2020 00:00	4.5 ft	658616-021
BH98	S	04.10.2020 00:00	4.5 ft	658616-022
BH99	S	04.10.2020 00:00	4.5 ft	658616-023
BH100	S	04.10.2020 00:00	4.5 ft	658616-024
BH101	S	04.10.2020 00:00	4.5 ft	658616-025
BH102	S	04.10.2020 00:00	4.5 ft	658616-026
BH103	S	04.10.2020 00:00	4.5 ft	658616-027
BH104	S	04.10.2020 00:00	4.5 ft	658616-028
BH105	S	04.10.2020 00:00	4.5 ft	658616-029
BH106	S	04.10.2020 00:00	4.5 ft	658616-030
BH107	S	04.10.2020 00:00	4.5 ft	658616-031
BH108	S	04.10.2020 00:00	4.5 ft	658616-032
BH109	S	04.10.2020 00:00	4.5 ft	658616-033
BH110	S	04.10.2020 00:00	4.5 ft	658616-034
BH111	S	04.10.2020 00:00	4.5 ft	658616-035
BH112	S	04.10.2020 00:00	4.5 ft	658616-036
BH113	S	04.10.2020 00:00	4.5 ft	658616-037
BH114	S	04.10.2020 00:00	4.5 ft	658616-038
BH115	S	04.10.2020 00:00	4.5 ft	658616-039
BH116	S	04.10.2020 00:00	4.5 ft	658616-040
BH117	S	04.10.2020 00:00	4.5 ft	658616-041
BH118	S	04.10.2020 00:00	4.5 ft	658616-042
BH119	S	04.10.2020 00:00	4.5 ft	658616-043

Sample Cross Reference 658616

Tetra Tech- Midland, Midland, TX

Audacious -Fearless

BH120	S	04.10.2020 00:00	4.5 ft	658616-044
BH121	S	04.10.2020 00:00	4.5 ft	658616-045
BH122	S	04.10.2020 00:00	4.5 ft	658616-046
BH123	S	04.10.2020 00:00	4.5 ft	658616-047
BH124	S	04.10.2020 00:00	4.5 ft	658616-048
BH125	S	04.10.2020 00:00	4.5 ft	658616-049
BH126	S	04.10.2020 00:00	4.5 ft	658616-050
BH127	S	04.10.2020 00:00	4.5 ft	658616-051
N4SW	S	04.10.2020 00:00		658616-052
E7SW	S	04.10.2020 00:00		658616-053
E9SW	S	04.10.2020 00:00		658616-054
E10SW	S	04.10.2020 00:00		658616-055
E11SW	S	04.10.2020 00:00		658616-056
E12SW	S	04.10.2020 00:00		658616-057
E13SW	S	04.10.2020 00:00		658616-058
E14SW	S	04.10.2020 00:00		658616-059
E15SW	S	04.10.2020 00:00		658616-060
N5SW	S	04.10.2020 00:00		658616-061
N6SW	S	04.10.2020 00:00		658616-062
N7SW	S	04.10.2020 00:00		658616-063
S2SW	S	04.10.2020 00:00		658616-064
E8SW	S	04.10.2020 00:00		658616-065

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Audacious -Fearless

Project ID: *212C-MD-02133*
Work Order Number(s): *658616*

Report Date: *04.14.2020*
Date Received: *04.10.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3122761 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122762 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122764 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122766 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3122916 TPH By SW8015 Mod
Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 658616-031.

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested		658616-001		658616-002		658616-003		658616-004		658616-005		658616-006	
	Field Id:	BH77		BH78		BH79		BH80		BH81		BH82	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20	
	Analyzed:	04.10.2020 21:18		04.10.2020 21:39		04.10.2020 21:59		04.10.2020 22:19		04.10.2020 22:40		04.10.2020 23:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00397	0.00397	<0.00399	0.00399	<0.00396	0.00396	<0.00398	0.00398	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	*Extracted:*	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **	
	Analyzed:	04.10.2020 19:30		04.10.2020 19:47		04.10.2020 19:52		04.10.2020 19:58		04.10.2020 20:03		04.10.2020 20:20	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2740	49.9	2480	49.8	2150	50.1	2860	50.1	3280	50.1	3020	49.9
TPH By SW8015 Mod	*Extracted:*	04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:30	
	Analyzed:	04.13.2020 09:32		04.13.2020 10:12		04.13.2020 10:32		04.13.2020 10:53		04.13.2020 11:13		04.13.2020 11:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.3	50.3
Diesel Range Organics (DRO)		<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.3	50.3
Total TPH		<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-007		658616-008		658616-009		658616-010		658616-011		658616-012	
	Field Id:	BH83		BH84		BH85		BH86		BH87		BH88	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20	
	Analyzed:	04.10.2020 23:20		04.10.2020 23:41		04.11.2020 00:01		04.11.2020 00:22		04.11.2020 01:43		04.11.2020 02:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00403	0.00403	<0.00403	0.00403	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **	
	Analyzed:	04.10.2020 20:25		04.10.2020 20:31		04.10.2020 20:36		04.10.2020 20:42		04.10.2020 20:47		04.10.2020 21:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3420	50.1	5340	50.1	5280	49.6	3480	49.8	5350	49.8	3530	50.0
TPH By SW8015 Mod	***Extracted:***	04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:30		04.10.2020 17:45		04.10.2020 17:45	
	Analyzed:	04.13.2020 11:54		04.13.2020 12:14		04.13.2020 12:34		04.13.2020 12:55		04.11.2020 01:51		04.11.2020 02:51	
	Units/RL:	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	<49.9	49.9	<50.1	50.1	<50.1	50.1	<50.3	50.3	<50.3	50.3
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1	<50.3	50.3	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1	<50.3	50.3	<50.3	50.3
Total TPH		<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1	<50.3	50.3	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-013		658616-014		658616-015		658616-016		658616-017		658616-018	
	Field Id:	BH89		BH90		BH91		BH92		BH93		BH94	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:20	
	Analyzed:	04.11.2020 02:24		04.11.2020 02:44		04.11.2020 03:05		04.11.2020 03:25		04.11.2020 03:45		04.11.2020 04:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00399	0.00399	<0.00402	0.00402
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300/300.1	***Extracted:***	** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **		** ** ** **	
	Analyzed:	04.10.2020 21:09		04.10.2020 21:25		04.10.2020 21:31		04.10.2020 21:36		04.10.2020 21:42		04.10.2020 21:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2380	49.6	1300	49.5	1080	49.9	972	49.8	3040	49.4	3080	50.2
TPH By SW8015 Mod	***Extracted:***	04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45	
	Analyzed:	04.11.2020 03:12		04.11.2020 03:32		04.11.2020 03:52		04.11.2020 04:12		04.11.2020 04:33		04.11.2020 04:53	
	Units/RL:	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	<49.9	49.9	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.1	50.1
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.1	50.1
Total TPH		<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.1	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested		658616-019		658616-020		658616-021		658616-022		658616-023		658616-024	
	Field Id:	BH95		BH96		BH97		BH98		BH99		BH100	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.10.2020 20:20		04.10.2020 20:20		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22	
	Analyzed:	04.11.2020 04:26		04.11.2020 04:47		04.11.2020 08:31		04.11.2020 08:51		04.11.2020 09:12		04.11.2020 09:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
m,p-Xylenes		<0.00398	0.00398	<0.00403	0.00403	<0.00401	0.00401	<0.00399	0.00399	<0.00401	0.00401	<0.00403	0.00403
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
Inorganic Anions by EPA 300/300.1	*Extracted:*	** ** ** **		** ** ** **		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20	
	Analyzed:	04.10.2020 21:52		04.10.2020 21:58		04.10.2020 22:31		04.10.2020 22:47		04.10.2020 22:53		04.10.2020 22:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2300	50.4	2350	49.9	1710	49.6	2400	49.9	2340	50.1	2190	50.4
TPH By SW8015 Mod	*Extracted:*	04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45	
	Analyzed:	04.11.2020 05:13		04.13.2020 09:32		04.13.2020 10:12		04.13.2020 10:32		04.13.2020 10:53		04.13.2020 11:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<49.8	49.8	<49.8	49.8
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<49.8	49.8	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<49.8	49.8	<49.8	49.8
Total TPH		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<49.8	49.8	<49.8	49.8

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-025		658616-026		658616-027		658616-028		658616-029		658616-030	
	Field Id:	BH101		BH102		BH103		BH104		BH105		BH106	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22	
	Analyzed:	04.11.2020 09:53		04.11.2020 10:13		04.11.2020 10:33		04.11.2020 10:54		04.11.2020 11:14		04.11.2020 11:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00403	0.00403	<0.00402	0.00402	<0.00404	0.00404	<0.00404	0.00404	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20	
	Analyzed:	04.10.2020 23:04		04.10.2020 23:20		04.10.2020 23:25		04.10.2020 23:31		04.10.2020 23:36		04.10.2020 23:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2840	50.1	2910	49.9	3480	49.6	2040	49.9	1800	49.8	1710	49.6
TPH By SW8015 Mod	***Extracted:***	04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45		04.10.2020 17:45	
	Analyzed:	04.13.2020 11:33		04.13.2020 11:54		04.13.2020 12:14		04.13.2020 12:34		04.13.2020 12:55		04.13.2020 13:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.0	50.0
Diesel Range Organics (DRO)		<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.0	50.0
Total TPH		<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.2	50.2	<50.3	50.3	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-031		658616-032		658616-033		658616-034		658616-035		658616-036	
	Field Id:	BH107		BH108		BH109		BH110		BH111		BH112	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22	
	Analyzed:	04.11.2020 12:56		04.11.2020 13:17		04.11.2020 13:37		04.11.2020 13:57		04.11.2020 14:18		04.11.2020 14:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00397	0.00397	<0.00401	0.00401	<0.00402	0.00402	<0.00399	0.00399	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20	
	Analyzed:	04.10.2020 23:47		04.11.2020 00:04		04.11.2020 00:09		04.11.2020 00:26		04.11.2020 00:31		04.11.2020 00:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1640	50.0	460	9.98	671	9.96	85.0	9.92	84.5	10.0	851	9.98
TPH By SW8015 Mod	***Extracted:***	04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00	
	Analyzed:	04.13.2020 16:18		04.13.2020 17:19		04.13.2020 17:39		04.13.2020 18:00		04.13.2020 18:20		04.13.2020 18:40	
	Units/RL:	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	<50.1	50.1	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.3	50.3
Diesel Range Organics (DRO)		<49.9	49.9	<50.1	50.1	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.1	50.1	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.3	50.3
Total TPH		<49.9	49.9	<50.1	50.1	<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-037		658616-038		658616-039		658616-040		658616-041		658616-042	
	Field Id:	BH113		BH114		BH115		BH116		BH117		BH118	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:22		04.10.2020 20:25		04.10.2020 20:25	
	Analyzed:	04.11.2020 14:59		04.11.2020 15:19		04.11.2020 15:39		04.11.2020 16:00		04.10.2020 22:31		04.10.2020 22:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00399	0.00399	<0.00398	0.00398	<0.00402	0.00402	<0.00395	0.00395
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00198	0.00198
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 17:20		04.10.2020 18:10		04.10.2020 18:10	
	Analyzed:	04.11.2020 00:42		04.11.2020 00:48		04.11.2020 00:53		04.11.2020 00:59		04.11.2020 11:30		04.11.2020 11:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		861	9.96	1550	49.9	1390	49.7	1450	49.7	1190	10.0	1280	10.1
TPH By SW8015 Mod	***Extracted:***	04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00	
	Analyzed:	04.13.2020 19:00		04.13.2020 19:20		04.13.2020 19:40		04.13.2020 20:00		04.13.2020 20:41		04.13.2020 21:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.1	50.1
Diesel Range Organics (DRO)		<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.1	50.1
Total TPH		<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.0	50.0	<50.1	50.1	<50.1	50.1

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Project Manager

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Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
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Analysis Requested		658616-043		658616-044		658616-045		658616-046		658616-047		658616-048	
	Field Id:	BH119		BH120		BH121		BH122		BH123		BH124	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25	
	Analyzed:	04.10.2020 23:12		04.10.2020 23:32		04.10.2020 23:53		04.11.2020 00:13		04.11.2020 00:34		04.11.2020 00:54	
	Units/RL:	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	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
Toluene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
Ethylbenzene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
m,p-Xylenes		<0.00402	0.00402	<0.00399	0.00399	<0.00404	0.00404	<0.00400	0.00400	<0.00404	0.00404	<0.00402	0.00402
o-Xylene		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
Total Xylenes		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
Total BTEX		<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10	
	Analyzed:	04.11.2020 11:52		04.11.2020 11:58		04.11.2020 12:03		04.11.2020 12:20		04.11.2020 12:25		04.11.2020 12:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1250	9.92	666	9.96	563	9.98	175	9.92	264	9.98	796	9.96
TPH By SW8015 Mod	*Extracted:*	04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00	
	Analyzed:	04.13.2020 21:22		04.13.2020 21:42		04.13.2020 22:02		04.13.2020 22:22		04.13.2020 22:42		04.13.2020 23:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3	<50.2	50.2
Total TPH		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3	<50.2	50.2

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Project Manager

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Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-049		658616-050		658616-051		658616-052		658616-053		658616-054	
	Field Id:	BH125		BH126		BH127		N4SW		E7SW		E9SW	
	Depth:	4.5- ft		4.5- ft		4.5- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25	
	Analyzed:	04.11.2020 01:14		04.11.2020 01:35		04.11.2020 02:36		04.11.2020 02:56		04.11.2020 03:17		04.11.2020 03:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
m,p-Xylenes		<0.00404	0.00404	<0.00401	0.00401	<0.00400	0.00400	<0.00403	0.00403	<0.00401	0.00401	<0.00402	0.00402
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10	
	Analyzed:	04.11.2020 12:36		04.11.2020 12:42		04.11.2020 12:47		04.11.2020 13:03		04.11.2020 13:09		04.11.2020 13:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		741	9.96	10.4	9.96	<9.96	9.96	18.1	10.1	79.4	9.92	784	9.96
TPH By SW8015 Mod	***Extracted:***	04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00	
	Analyzed:	04.13.2020 23:23		04.13.2020 23:43		04.13.2020 16:18		04.13.2020 17:19		04.13.2020 17:39		04.13.2020 18:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.3	50.3
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.3	50.3
Total TPH		<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658616-055		658616-056		658616-057		658616-058		658616-059		658616-060	
	Field Id:	E10SW		E11SW		E12SW		E13SW		E14SW		E15SW	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25		04.10.2020 20:25	
	Analyzed:	04.11.2020 03:58		04.11.2020 04:18		04.11.2020 04:38		04.11.2020 04:59		04.11.2020 05:19		04.11.2020 05:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00397	0.00397	<0.00403	0.00403	<0.00399	0.00399	<0.00403	0.00403	<0.00399	0.00399	<0.00397	0.00397
o-Xylene		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00198	0.00198
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10		04.10.2020 18:10	
	Analyzed:	04.11.2020 13:31		04.11.2020 13:36		04.11.2020 13:42		04.11.2020 13:47		04.11.2020 13:53		04.11.2020 13:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		434	9.94	65.7	10.1	<10.0	10.0	711	9.96	62.0	9.98	70.7	10.0
TPH By SW8015 Mod	***Extracted:***	04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00	
	Analyzed:	04.13.2020 18:20		04.13.2020 18:40		04.13.2020 19:00		04.13.2020 19:20		04.13.2020 19:40		04.13.2020 20:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.3	50.3	<50.1	50.1	<49.9	49.9	<50.2	50.2	<50.3	50.3
Diesel Range Organics (DRO)		<49.8	49.8	<50.3	50.3	<50.1	50.1	<49.9	49.9	<50.2	50.2	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.3	50.3	<50.1	50.1	<49.9	49.9	<50.2	50.2	<50.3	50.3
Total TPH		<49.8	49.8	<50.3	50.3	<50.1	50.1	<49.9	49.9	<50.2	50.2	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658616

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.10.2020 16:15
Report Date: 04.14.2020 12:30
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	658616-061		658616-062		658616-063		658616-064		658616-065	
	Field Id:	N5SW		N6SW		N7SW		S2SW		E8SW	
	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00		04.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.10.2020 20:27		04.10.2020 20:27		04.10.2020 20:27		04.10.2020 20:27		04.10.2020 20:27	
	Analyzed:	04.11.2020 08:43		04.11.2020 09:03		04.11.2020 09:24		04.11.2020 09:44		04.11.2020 10:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00404	0.00404	<0.00398	0.00398	<0.00396	0.00396	<0.00401	0.00401	<0.00401	0.00401
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.11.2020 09:13		04.11.2020 09:13		04.11.2020 09:13		04.11.2020 09:13		04.11.2020 09:13	
	Analyzed:	04.11.2020 14:31		04.11.2020 14:47		04.11.2020 14:53		04.11.2020 14:58		04.11.2020 15:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		64.7	9.92	63.7	10.1	723	10.1	75.2	10.1	281	10.1
TPH By SW8015 Mod	***Extracted:***	04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00		04.10.2020 18:00	
	Analyzed:	04.13.2020 20:41		04.13.2020 21:01		04.13.2020 21:22		04.13.2020 21:42		04.13.2020 22:02	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Total TPH		<50.2	50.2	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2

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Jessica Kramer
Project Manager

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 658616-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 21:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0274	0.0300	91	70-130	

Lab Batch #: 3122761 **Sample:** 658616-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 21:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0274	0.0300	91	70-130	

Lab Batch #: 3122761 **Sample:** 658616-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 21:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0278	0.0300	93	70-130	

Lab Batch #: 3122761 **Sample:** 658616-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 22:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	70-130	
4-Bromofluorobenzene	0.0273	0.0300	91	70-130	

Lab Batch #: 3122764 **Sample:** 658616-041 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 22:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 658616-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 22:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	70-130	
4-Bromofluorobenzene	0.0279	0.0300	93	70-130	

Lab Batch #: 3122764 **Sample:** 658616-042 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 22:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

Lab Batch #: 3122761 **Sample:** 658616-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 23:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0281	0.0300	94	70-130	

Lab Batch #: 3122764 **Sample:** 658616-043 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 23:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

Lab Batch #: 3122761 **Sample:** 658616-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 23:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0278	0.0300	93	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122764 **Sample:** 658616-044 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 23:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3122761 **Sample:** 658616-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 23:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

Lab Batch #: 3122764 **Sample:** 658616-045 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 23:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

Lab Batch #: 3122761 **Sample:** 658616-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 00:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0273	0.0300	91	70-130	

Lab Batch #: 3122764 **Sample:** 658616-046 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 00:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 658616-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 00:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0265	0.0300	88	70-130	

Lab Batch #: 3122764 **Sample:** 658616-047 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 00:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3122764 **Sample:** 658616-048 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 00:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	70-130	
4-Bromofluorobenzene	0.0303	0.0300	101	70-130	

Lab Batch #: 3122764 **Sample:** 658616-049 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 01:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0295	0.0300	98	70-130	

Lab Batch #: 3122764 **Sample:** 658616-050 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 01:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 658616-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 01:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

Lab Batch #: 3122830 **Sample:** 658616-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 01:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	101	122	70-135	
o-Terphenyl	66.7	50.3	133	70-135	

Lab Batch #: 3122761 **Sample:** 658616-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0275	0.0300	92	70-130	

Lab Batch #: 3122761 **Sample:** 658616-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0266	0.0300	89	70-130	

Lab Batch #: 3122764 **Sample:** 658616-051 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 658616-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0284	0.0300	95	70-130	

Lab Batch #: 3122830 **Sample:** 658616-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	101	92	70-135	
o-Terphenyl	49.9	50.3	99	70-135	

Lab Batch #: 3122764 **Sample:** 658616-052 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3122761 **Sample:** 658616-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0281	0.0300	94	70-130	

Lab Batch #: 3122830 **Sample:** 658616-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.7	100	95	70-135	
o-Terphenyl	51.4	50.0	103	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122764 **Sample:** 658616-053 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3122761 **Sample:** 658616-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3122830 **Sample:** 658616-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.0	99.8	97	70-135	
o-Terphenyl	49.9	49.9	100	70-135	

Lab Batch #: 3122764 **Sample:** 658616-054 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0301	0.0300	100	70-130	

Lab Batch #: 3122761 **Sample:** 658616-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	70-130	
4-Bromofluorobenzene	0.0282	0.0300	94	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122830 **Sample:** 658616-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.6	99.7	93	70-135	
o-Terphenyl	49.4	49.9	99	70-135	

Lab Batch #: 3122764 **Sample:** 658616-055 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 03:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3122761 **Sample:** 658616-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0274	0.0300	91	70-130	

Lab Batch #: 3122830 **Sample:** 658616-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.0	100	92	70-135	
o-Terphenyl	50.3	50.2	100	70-135	

Lab Batch #: 3122764 **Sample:** 658616-056 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0284	0.0300	95	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 658616-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	70-130	
4-Bromofluorobenzene	0.0291	0.0300	97	70-130	

Lab Batch #: 3122830 **Sample:** 658616-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	101	92	70-135	
o-Terphenyl	49.1	50.3	98	70-135	

Lab Batch #: 3122764 **Sample:** 658616-057 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

Lab Batch #: 3122761 **Sample:** 658616-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	70-130	
4-Bromofluorobenzene	0.0290	0.0300	97	70-130	

Lab Batch #: 3122830 **Sample:** 658616-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	51.7	50.1	103	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122764 **Sample:** 658616-058 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 04:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0291	0.0300	97	70-130	

Lab Batch #: 3122830 **Sample:** 658616-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 05:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.4	100	89	70-135	
o-Terphenyl	48.4	50.2	96	70-135	

Lab Batch #: 3122764 **Sample:** 658616-059 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 05:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3122764 **Sample:** 658616-060 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 05:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0290	0.0300	97	70-130	

Lab Batch #: 3122762 **Sample:** 658616-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 08:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122766 **Sample:** 658616-061 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 08:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0282	0.0300	94	70-130	

Lab Batch #: 3122762 **Sample:** 658616-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 08:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	70-130	
4-Bromofluorobenzene	0.0279	0.0300	93	70-130	

Lab Batch #: 3122766 **Sample:** 658616-062 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 09:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3122762 **Sample:** 658616-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 09:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0275	0.0300	92	70-130	

Lab Batch #: 3122766 **Sample:** 658616-063 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 09:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122762 **Sample:** 658616-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 09:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0278	0.0300	93	70-130	

Lab Batch #: 3122766 **Sample:** 658616-064 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 09:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0290	0.0300	97	70-130	

Lab Batch #: 3122762 **Sample:** 658616-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 09:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	70-130	
4-Bromofluorobenzene	0.0281	0.0300	94	70-130	

Lab Batch #: 3122766 **Sample:** 658616-065 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 10:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

Lab Batch #: 3122762 **Sample:** 658616-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 10:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	70-130	
4-Bromofluorobenzene	0.0269	0.0300	90	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122762 **Sample:** 658616-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 10:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0283	0.0300	94	70-130	

Lab Batch #: 3122762 **Sample:** 658616-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 10:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3122762 **Sample:** 658616-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 11:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0270	0.0300	90	70-130	

Lab Batch #: 3122762 **Sample:** 658616-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 11:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0254	0.0300	85	70-130	

Lab Batch #: 3122762 **Sample:** 658616-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 12:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	70-130	
4-Bromofluorobenzene	0.0275	0.0300	92	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122762 **Sample:** 658616-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 13:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

Lab Batch #: 3122762 **Sample:** 658616-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 13:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	70-130	
4-Bromofluorobenzene	0.0251	0.0300	84	70-130	

Lab Batch #: 3122762 **Sample:** 658616-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 13:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0279	0.0300	93	70-130	

Lab Batch #: 3122762 **Sample:** 658616-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 14:18

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	70-130	
4-Bromofluorobenzene	0.0272	0.0300	91	70-130	

Lab Batch #: 3122762 **Sample:** 658616-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 14:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	70-130	
4-Bromofluorobenzene	0.0273	0.0300	91	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122762 **Sample:** 658616-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 14:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	70-130	
4-Bromofluorobenzene	0.0248	0.0300	83	70-130	

Lab Batch #: 3122762 **Sample:** 658616-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 15:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	70-130	
4-Bromofluorobenzene	0.0261	0.0300	87	70-130	

Lab Batch #: 3122762 **Sample:** 658616-039 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 15:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0253	0.0300	84	70-130	

Lab Batch #: 3122762 **Sample:** 658616-040 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 16:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0339	0.0300	113	70-130	
4-Bromofluorobenzene	0.0271	0.0300	90	70-130	

Lab Batch #: 3122832 **Sample:** 658616-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 09:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.5	99.5	89	70-135	
o-Terphenyl	47.0	49.8	94	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122830 **Sample:** 658616-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 09:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.8	100	88	70-135	
o-Terphenyl	48.0	50.2	96	70-135	

Lab Batch #: 3122832 **Sample:** 658616-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 10:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.1	100	83	70-135	
o-Terphenyl	44.2	50.1	88	70-135	

Lab Batch #: 3122830 **Sample:** 658616-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 10:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.7	99.9	92	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

Lab Batch #: 3122832 **Sample:** 658616-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 10:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.3	101	81	70-135	
o-Terphenyl	43.6	50.3	87	70-135	

Lab Batch #: 3122830 **Sample:** 658616-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 10:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.2	100	91	70-135	
o-Terphenyl	50.4	50.1	101	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122832 **Sample:** 658616-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 10:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	82.2	100	82	70-135	
o-Terphenyl	44.1	50.2	88	70-135	

Lab Batch #: 3122830 **Sample:** 658616-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 10:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.2	99.5	91	70-135	
o-Terphenyl	49.8	49.8	100	70-135	

Lab Batch #: 3122832 **Sample:** 658616-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 11:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.3	100	84	70-135	
o-Terphenyl	44.2	50.2	88	70-135	

Lab Batch #: 3122830 **Sample:** 658616-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 11:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	99.5	90	70-135	
o-Terphenyl	49.3	49.8	99	70-135	

Lab Batch #: 3122832 **Sample:** 658616-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 11:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.3	101	84	70-135	
o-Terphenyl	45.1	50.3	90	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122830 **Sample:** 658616-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 11:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.5	101	91	70-135	
o-Terphenyl	50.4	50.3	100	70-135	

Lab Batch #: 3122832 **Sample:** 658616-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 11:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.6	99.9	86	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 3122830 **Sample:** 658616-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 11:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.2	100	89	70-135	
o-Terphenyl	48.9	50.2	97	70-135	

Lab Batch #: 3122832 **Sample:** 658616-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.7	99.8	84	70-135	
o-Terphenyl	44.4	49.9	89	70-135	

Lab Batch #: 3122830 **Sample:** 658616-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.0	99.8	93	70-135	
o-Terphenyl	51.4	49.9	103	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122832 **Sample:** 658616-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 12:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	83.1	100	83	70-135	
o-Terphenyl	44.0	50.1	88	70-135	

Lab Batch #: 3122830 **Sample:** 658616-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 12:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	49.7	50.2	99	70-135	

Lab Batch #: 3122832 **Sample:** 658616-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 12:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	81.8	100	82	70-135	
o-Terphenyl	43.5	50.1	87	70-135	

Lab Batch #: 3122830 **Sample:** 658616-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 12:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.9	101	89	70-135	
o-Terphenyl	48.5	50.3	96	70-135	

Lab Batch #: 3122830 **Sample:** 658616-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 13:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.7	100	98	70-135	
o-Terphenyl	54.3	50.0	109	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122916 **Sample:** 658616-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 16:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	99.8	128	70-135	
o-Terphenyl	69.2	49.9	139	70-135	**

Lab Batch #: 3122924 **Sample:** 658616-051 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 16:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	131	101	130	70-135	
o-Terphenyl	60.9	50.3	121	70-135	

Lab Batch #: 3122916 **Sample:** 658616-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 17:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.0	100	89	70-135	
o-Terphenyl	48.9	50.1	98	70-135	

Lab Batch #: 3122924 **Sample:** 658616-052 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 17:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.5	100	94	70-135	
o-Terphenyl	49.5	50.2	99	70-135	

Lab Batch #: 3122916 **Sample:** 658616-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 17:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.7	100	73	70-135	
o-Terphenyl	39.1	50.0	78	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122924 **Sample:** 658616-053 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 17:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.7	104	70-135	
o-Terphenyl	54.6	49.9	109	70-135	

Lab Batch #: 3122916 **Sample:** 658616-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 18:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.5	99.6	93	70-135	
o-Terphenyl	51.0	49.8	102	70-135	

Lab Batch #: 3122924 **Sample:** 658616-054 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 18:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.9	101	96	70-135	
o-Terphenyl	50.7	50.3	101	70-135	

Lab Batch #: 3122916 **Sample:** 658616-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 18:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	55.7	49.9	112	70-135	

Lab Batch #: 3122924 **Sample:** 658616-055 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 18:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	99.6	95	70-135	
o-Terphenyl	49.7	49.8	100	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122916 **Sample:** 658616-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 18:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	101	92	70-135	
o-Terphenyl	49.5	50.3	98	70-135	

Lab Batch #: 3122924 **Sample:** 658616-056 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 18:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.7	101	87	70-135	
o-Terphenyl	45.9	50.3	91	70-135	

Lab Batch #: 3122916 **Sample:** 658616-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 19:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	99.5	98	70-135	
o-Terphenyl	52.8	49.8	106	70-135	

Lab Batch #: 3122924 **Sample:** 658616-057 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 19:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.2	100	92	70-135	
o-Terphenyl	48.4	50.1	97	70-135	

Lab Batch #: 3122916 **Sample:** 658616-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 19:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.4	101	91	70-135	
o-Terphenyl	49.2	50.3	98	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122924 **Sample:** 658616-058 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 19:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.9	99.7	87	70-135	
o-Terphenyl	45.6	49.9	91	70-135	

Lab Batch #: 3122916 **Sample:** 658616-039 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 19:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	99.7	95	70-135	
o-Terphenyl	51.2	49.9	103	70-135	

Lab Batch #: 3122924 **Sample:** 658616-059 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 19:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	100	95	70-135	
o-Terphenyl	49.7	50.2	99	70-135	

Lab Batch #: 3122916 **Sample:** 658616-040 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 20:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.9	92	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 3122924 **Sample:** 658616-060 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 20:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.9	101	88	70-135	
o-Terphenyl	46.5	50.3	92	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122916 **Sample:** 658616-041 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 20:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.2	100	90	70-135	
o-Terphenyl	49.0	50.1	98	70-135	

Lab Batch #: 3122924 **Sample:** 658616-061 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 20:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.6	100	91	70-135	
o-Terphenyl	47.2	50.2	94	70-135	

Lab Batch #: 3122916 **Sample:** 658616-042 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 21:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.4	100	91	70-135	
o-Terphenyl	49.5	50.1	99	70-135	

Lab Batch #: 3122924 **Sample:** 658616-062 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 21:01

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	48.2	50.2	96	70-135	

Lab Batch #: 3122916 **Sample:** 658616-043 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 21:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	50.3	50.2	100	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122924 **Sample:** 658616-063 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 21:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.5	99.9	87	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 3122916 **Sample:** 658616-044 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 21:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	99.6	93	70-135	
o-Terphenyl	50.0	49.8	100	70-135	

Lab Batch #: 3122924 **Sample:** 658616-064 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 21:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	47.4	50.1	95	70-135	

Lab Batch #: 3122916 **Sample:** 658616-045 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 22:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	100	91	70-135	
o-Terphenyl	50.2	50.1	100	70-135	

Lab Batch #: 3122924 **Sample:** 658616-065 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 22:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	100	91	70-135	
o-Terphenyl	46.8	50.2	93	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122916 **Sample:** 658616-046 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 22:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	101	89	70-135	
o-Terphenyl	49.3	50.3	98	70-135	

Lab Batch #: 3122916 **Sample:** 658616-047 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 22:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.5	101	95	70-135	
o-Terphenyl	51.0	50.3	101	70-135	

Lab Batch #: 3122916 **Sample:** 658616-048 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 23:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	100	91	70-135	
o-Terphenyl	49.8	50.2	99	70-135	

Lab Batch #: 3122916 **Sample:** 658616-049 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 23:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.5	100	95	70-135	
o-Terphenyl	51.2	50.2	102	70-135	

Lab Batch #: 3122916 **Sample:** 658616-050 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 23:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.8	100	94	70-135	
o-Terphenyl	50.7	50.2	101	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122761 **Sample:** 7701113-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.10.2020 18:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3122764 **Sample:** 7701116-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.10.2020 20:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3122832 **Sample:** 7701070-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 00:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.5	100	86	70-135	
o-Terphenyl	45.6	50.0	91	70-135	

Lab Batch #: 3122830 **Sample:** 7701128-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 00:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	62.4	50.0	125	70-135	

Lab Batch #: 3122762 **Sample:** 7701115-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 06:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0342	0.0300	114	70-130	
4-Bromofluorobenzene	0.0269	0.0300	90	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122766 **Sample:** 7701117-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 06:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0282	0.0300	94	70-130	

Lab Batch #: 3122916 **Sample:** 7701134-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.13.2020 15:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	54.4	50.0	109	70-135	

Lab Batch #: 3122924 **Sample:** 7701140-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.13.2020 15:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	55.3	50.0	111	70-135	

Lab Batch #: 3122761 **Sample:** 7701113-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.10.2020 19:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0256	0.0300	85	70-130	

Lab Batch #: 3122764 **Sample:** 7701116-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.10.2020 20:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0272	0.0300	91	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122832 **Sample:** 7701070-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 01:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	84.8	100	85	70-135	
o-Terphenyl	41.8	50.0	84	70-135	

Lab Batch #: 3122830 **Sample:** 7701128-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 01:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	64.2	50.0	128	70-135	

Lab Batch #: 3122762 **Sample:** 7701115-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 06:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0254	0.0300	85	70-130	

Lab Batch #: 3122766 **Sample:** 7701117-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 07:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0279	0.0300	93	70-130	

Lab Batch #: 3122916 **Sample:** 7701134-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.13.2020 15:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	100	122	70-135	
o-Terphenyl	63.6	50.0	127	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122924 **Sample:** 7701140-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.13.2020 15:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	100	119	70-135	
o-Terphenyl	49.0	50.0	98	70-135	

Lab Batch #: 3122761 **Sample:** 7701113-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.10.2020 19:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0251	0.0300	84	70-130	

Lab Batch #: 3122764 **Sample:** 7701116-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.10.2020 21:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3122832 **Sample:** 7701070-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 01:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	49.6	50.0	99	70-135	

Lab Batch #: 3122830 **Sample:** 7701128-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 01:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	126	100	126	70-135	
o-Terphenyl	66.6	50.0	133	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122762 **Sample:** 7701115-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 06:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0262	0.0300	87	70-130	

Lab Batch #: 3122766 **Sample:** 7701117-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.11.2020 07:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0278	0.0300	93	70-130	

Lab Batch #: 3122916 **Sample:** 7701134-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.13.2020 15:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	64.7	50.0	129	70-135	

Lab Batch #: 3122924 **Sample:** 7701140-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.13.2020 15:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	49.7	50.0	99	70-135	

Lab Batch #: 3122761 **Sample:** 658616-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 19:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0263	0.0300	88	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122764 **Sample:** 658616-041 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 21:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3122832 **Sample:** 658610-014 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

Lab Batch #: 3122830 **Sample:** 658616-011 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	54.2	50.1	108	70-135	

Lab Batch #: 3122762 **Sample:** 658616-021 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 07:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0266	0.0300	89	70-130	

Lab Batch #: 3122766 **Sample:** 658616-061 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 07:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0281	0.0300	94	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122916 **Sample:** 658616-031 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 16:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	59.1	50.2	118	70-135	

Lab Batch #: 3122924 **Sample:** 658616-051 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 16:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.5	114	70-135	
o-Terphenyl	50.3	49.8	101	70-135	

Lab Batch #: 3122761 **Sample:** 658616-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 20:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	70-130	
4-Bromofluorobenzene	0.0264	0.0300	88	70-130	

Lab Batch #: 3122764 **Sample:** 658616-041 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.10.2020 21:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3122832 **Sample:** 658610-014 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	51.1	49.9	102	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless

Work Orders: 658616 **Project ID:** 212C-MD-02133

Lab Batch #: 3122830 **Sample:** 658616-011 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 02:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	53.9	50.1	108	70-135	

Lab Batch #: 3122762 **Sample:** 658616-021 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 07:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0327	0.0300	109	70-130	
4-Bromofluorobenzene	0.0267	0.0300	89	70-130	

Lab Batch #: 3122766 **Sample:** 658616-061 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.11.2020 08:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0275	0.0300	92	70-130	

Lab Batch #: 3122916 **Sample:** 658616-031 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 16:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	54.4	50.2	108	70-135	

Lab Batch #: 3122924 **Sample:** 658616-051 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.13.2020 16:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	54.4	50.1	109	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Audacious -Fearless

Work Order #: 658616 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.10.2020

Lab Batch ID: 3122761 **Sample:** 7701113-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.122	122	0.100	0.122	122	0	70-130	35	
Toluene	<0.00200	0.100	0.111	111	0.100	0.112	112	1	70-130	35	
Ethylbenzene	<0.00200	0.100	0.103	103	0.100	0.103	103	0	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.200	0.201	101	0	70-135	35	
o-Xylene	<0.00200	0.100	0.102	102	0.100	0.102	102	0	71-133	35	

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.11.2020

Lab Batch ID: 3122762 **Sample:** 7701115-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.125	125	0.100	0.118	118	6	70-130	35	
Toluene	<0.00200	0.100	0.112	112	0.100	0.107	107	5	70-130	35	
Ethylbenzene	<0.00200	0.100	0.103	103	0.100	0.0980	98	5	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.200	100	0.200	0.190	95	5	70-135	35	
o-Xylene	<0.00200	0.100	0.103	103	0.100	0.0979	98	5	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Audacious -Fearless

Work Order #: 658616 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.10.2020

Lab Batch ID: 3122764 **Sample:** 7701116-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.108	108	0.100	0.107	107	1	70-130	35	
Toluene	<0.00200	0.100	0.102	102	0.100	0.101	101	1	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.100	0.0950	95	0	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.200	0.196	98	1	70-135	35	
o-Xylene	<0.00200	0.100	0.0994	99	0.100	0.0994	99	0	71-133	35	

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.11.2020

Lab Batch ID: 3122766 **Sample:** 7701117-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.102	102	0.100	0.0941	94	8	70-130	35	
Toluene	<0.00200	0.100	0.0962	96	0.100	0.0888	89	8	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0906	91	0.100	0.0830	83	9	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.200	0.172	86	8	70-135	35	
o-Xylene	<0.00200	0.100	0.0955	96	0.100	0.0879	88	8	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Audacious -Fearless

Work Order #: 658616 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.10.2020

Lab Batch ID: 3122770 **Sample:** 7701104-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	261	104	250	262	105	0	90-110	20	

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.10.2020

Lab Batch ID: 3122771 **Sample:** 7701107-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	262	105	250	262	105	0	90-110	20	

Analyst: MAB **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.11.2020

Lab Batch ID: 3122772 **Sample:** 7701108-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	264	106	250	269	108	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Audacious -Fearless

Work Order #: 658616 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.11.2020 **Date Analyzed:** 04.11.2020

Lab Batch ID: 3122773 **Sample:** 7701110-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	258	103	250	262	105	2	90-110	20	

Analyst: DTH **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.11.2020

Lab Batch ID: 3122832 **Sample:** 7701070-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	771	77	1000	935	94	19	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	709	71	1000	857	86	19	70-135	35	

Analyst: DTH **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.11.2020

Lab Batch ID: 3122830 **Sample:** 7701128-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	956	96	1000	1000	100	4	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1000	1090	109	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Audacious -Fearless

Work Order #: 658616 **Project ID:** 212C-MD-02133

Analyst: DTH **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.13.2020

Lab Batch ID: 3122916 **Sample:** 7701134-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	949	95	1000	983	98	4	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	1000	1150	115	4	70-135	35	

Analyst: DTH **Date Prepared:** 04.10.2020 **Date Analyzed:** 04.13.2020

Lab Batch ID: 3122924 **Sample:** 7701140-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	967	97	1000	963	96	0	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1000	1080	108	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122761 **QC- Sample ID:** 658616-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.10.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00202	0.101	0.110	109	0.101	0.0940	93	16	70-130	35	
Toluene	<0.00202	0.101	0.101	100	0.101	0.0852	84	17	70-130	35	
Ethylbenzene	<0.00202	0.101	0.0932	92	0.101	0.0781	77	18	71-129	35	
m,p-Xylenes	<0.00403	0.202	0.181	90	0.202	0.152	75	17	70-135	35	
o-Xylene	<0.00202	0.101	0.0901	89	0.101	0.0757	75	17	71-133	35	

Lab Batch ID: 3122762 **QC- Sample ID:** 658616-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.116	116	0.0998	0.115	115	1	70-130	35	
Toluene	<0.00200	0.100	0.104	104	0.0998	0.0993	99	5	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0948	95	0.0998	0.0881	88	7	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.183	92	0.200	0.169	85	8	70-135	35	
o-Xylene	<0.00200	0.100	0.0936	94	0.0998	0.0880	88	6	71-133	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122764 **QC- Sample ID:** 658616-041 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.10.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.101	101	0.101	0.0982	97	3	70-130	35	
Toluene	<0.00200	0.100	0.0962	96	0.101	0.0936	93	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0892	89	0.101	0.0880	87	1	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.201	0.182	91	2	70-135	35	
o-Xylene	<0.00200	0.100	0.0928	93	0.101	0.0910	90	2	71-133	35	

Lab Batch ID: 3122766 **QC- Sample ID:** 658616-061 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.101	0.105	104	0.101	0.102	101	3	70-130	35	
Toluene	<0.00201	0.101	0.0991	98	0.101	0.0949	94	4	70-130	35	
Ethylbenzene	<0.00201	0.101	0.0928	92	0.101	0.0870	86	6	71-129	35	
m,p-Xylenes	<0.00402	0.201	0.189	94	0.201	0.178	89	6	70-135	35	
o-Xylene	<0.00201	0.101	0.0960	95	0.101	0.0906	90	6	71-133	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122770 **QC- Sample ID:** 658616-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.10.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	2740	200	2920	90	200	2920	90	0	90-110	20	

Lab Batch ID: 3122770 **QC- Sample ID:** 658616-011 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.10.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	5350	202	5540	94	202	5540	94	0	90-110	20	

Lab Batch ID: 3122771 **QC- Sample ID:** 658616-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.10.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1710	199	1900	95	199	1910	101	1	90-110	20	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122771 **QC- Sample ID:** 658616-031 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.10.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1640	200	1860	110	200	1850	105	1	90-110	20	

Lab Batch ID: 3122772 **QC- Sample ID:** 658616-041 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1190	200	1380	95	200	1380	95	0	90-110	20	

Lab Batch ID: 3122772 **QC- Sample ID:** 658616-051 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.10.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<9.96	199	211	106	200	213	107	1	90-110	20	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122773 **QC- Sample ID:** 658610-016 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.11.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1420	200	1620	100	200	1630	105	1	90-110	20	

Lab Batch ID: 3122773 **QC- Sample ID:** 658616-061 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.11.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	64.7	199	274	105	199	272	104	1	90-110	20	

Lab Batch ID: 3122830 **QC- Sample ID:** 658616-011 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.10.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	925	93	1000	907	91	2	70-135	35	
Diesel Range Organics (DRO)	<50.1	1000	879	88	1000	863	86	2	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122832 **QC- Sample ID:** 658610-014 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.11.2020 **Date Prepared:** 04.10.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	885	89	998	898	90	1	70-135	35	
Diesel Range Organics (DRO)	<50.0	999	819	82	998	833	83	2	70-135	35	

Lab Batch ID: 3122916 **QC- Sample ID:** 658616-031 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.13.2020 **Date Prepared:** 04.10.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	981	98	1000	922	92	6	70-135	35	
Diesel Range Organics (DRO)	<50.2	1000	957	96	1000	871	87	9	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless

Work Order # : 658616 **Project ID:** 212C-MD-02133

Lab Batch ID: 3122924 **QC- Sample ID:** 658616-051 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.13.2020 **Date Prepared:** 04.10.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	832	84	1000	914	91	9	70-135	35	
Diesel Range Organics (DRO)	<49.8	995	774	78	1000	855	86	10	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record

Page 1 of 7

Tetra Tech, Inc.

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

Client Name: EOG	Site Manager: Mike Carmona
Project Name: Audacious - Fearless	
Project Location: (county, state) Lea, NM	Project #: 212C-MD-02133
Invoice to: EOG - James Kennedy	
Receiving Laboratory: Xenco	Sampler Signature: Tony Legarda
Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 77 4.5' bgs	4/10			X			X		1	N	X		X												X				
	BH 78																													
	BH 79																													
	BH 80																													
	BH 81																													
	BH 82																													
	BH 83																													
	BH 84																													
	BH 85																													
	BH 86																													

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Relinquished by:	Date:	Time:	Received by:

Received by: Date: 4/10/20 Time: 16:15

LAB USE ONLY

Sample Temperature 3.0

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious- Fearless

Project Location (county, state): Lea, NM

Project #: 212-C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Legarda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: ~~2019~~ 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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 / Sulfate / TDS	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH 87	4/10	4.5' bgs		X			X		1	N	X		X												X							
	BH 88																																
	BH 89																																
	BH 90																																
	BH 91																																
	BH 92																																
	BH 93																																
	BH 94																																
	BH 95																																
	BH 96																																

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

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature: 3.0

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Page 3 of 7

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location (county, state): Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Leganda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	BH 97	4.5' bgs	4/10		X			X		1	N
	BH 98										
	BH 99										
	BH 100										
	BH 101										
	BH 102										
	BH 103										
	BH 104										
	BH 105										
	BH 106										

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
X	X													X						

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

LAB USE ONLY

Sample Temperature: 3.0

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr (48 hr) 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: EOG

Project Location (county, state): Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Loguinda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
	BH 107 4.5' bgs	4/10			X			X		1	N	X	X												X						
	BH 108																														
	BH 109																														
	BH 110																														
	BH 111																														
	BH 112																														
	BH 113																														
	BH 114																														
	BH 115																														
	BH 116																														

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Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 3.0

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr (48 hr) 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record

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Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Loyanda

Comments:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 117 4.5' bgs	4/10			X			X		1	N	X		X											X				
	BH 118																												
	BH 119																												
	BH 120																												
	BH 121																												
	BH 122																												
	BH 123																												
	BH 124																												
	BH 125																												
	BH 126																												

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Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.0

REMARKS:

- [ ] STANDARD
- [x] RUSH: Same Day 24 hr (48 hr) 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record

Page 6 of 7

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Laganda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 127 4.5' b-b	4/10			X			X		1	N	X		X												X			
	N4SW																												
	E7SW																												
	E9SW																												
	E10SW																												
	E11SW																												
	E12SW																												
	E13SW																												
	E14SW																												
	E15SW																												

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

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature 3.0

REMARKS:

- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record

Page 7 of 7

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Laguna

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 20-20)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	N5 SW	4/10			X			X			
	N6 SW										
	N7 SW										
	S2 SW										
	E8 SW A.L.										

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
	X	X													X				

Relinquished by: Date: 4/10/20 Time: 1615 — Received by: Date: 4/10/20 Time: 16:15

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

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

LAB USE ONLY

Sample Temperature 3.0

REMARKS:

- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 04.10.2020 04.15.00 PM

Work Order #: 658616

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)?	3
#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)?	**No**
#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: Elizabeth McClellan Date: 04.10.2020

Checklist reviewed by: Jessica Kramer Date: 04.13.2020

Jessica Kramer

Analytical Report 658815

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Audacious-Fearless Layflat Release

212C-MD-02133

04.15.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.15.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **658815**
Audacious-Fearless Layflat Release
Project Address: Lea, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 658815. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 658815 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 658815

Tetra Tech- Midland, Midland, TX

Audacious-Fearless Layflat Release

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH 128	S	04.14.2020 00:00	3.5 ft	658815-001
BH 129	S	04.14.2020 00:00	3.5 ft	658815-002
BH 130	S	04.14.2020 00:00	4.5 ft	658815-003
BH 131	S	04.14.2020 00:00	4.5 ft	658815-004
BH 132	S	04.14.2020 00:00	4.5 ft	658815-005
BH 133	S	04.14.2020 00:00	4.5 ft	658815-006
BH 134	S	04.14.2020 00:00	4.5 ft	658815-007
BH 135	S	04.14.2020 00:00	4.5 ft	658815-008
BH 136	S	04.14.2020 00:00	4.5 ft	658815-009
BH 137	S	04.14.2020 00:00	4.5 ft	658815-010
BH 138	S	04.14.2020 00:00	4.5 ft	658815-011
BH 139	S	04.14.2020 00:00	4.5 ft	658815-012
BH 140	S	04.14.2020 00:00	4.5 ft	658815-013
BH 141	S	04.14.2020 00:00	4.5 ft	658815-014
BH 142	S	04.14.2020 00:00	4.5 ft	658815-015
BH 143	S	04.14.2020 00:00	4.5 ft	658815-016
BH 144	S	04.14.2020 00:00	4.5 ft	658815-017
BH 145	S	04.14.2020 00:00	4.5 ft	658815-018
BH 146	S	04.14.2020 00:00	4.5 ft	658815-019
BH 147	S	04.14.2020 00:00	4.5 ft	658815-020
BH 148	S	04.14.2020 00:00	4.5 ft	658815-021
BH 149	S	04.14.2020 00:00	4.5 ft	658815-022
BH 150	S	04.14.2020 00:00	4.5 ft	658815-023
BH 151	S	04.14.2020 00:00	4.5 ft	658815-024
BH 152	S	04.14.2020 00:00	4.5 ft	658815-025
BH 153	S	04.14.2020 00:00	4.5 ft	658815-026
BH 154	S	04.14.2020 00:00	4.5 ft	658815-027
BH 155	S	04.14.2020 00:00	4.5 ft	658815-028
BH 156	S	04.14.2020 00:00	4.5 ft	658815-029
BH 157	S	04.14.2020 00:00	4.5 ft	658815-030
BH 158	S	04.14.2020 00:00	4.5 ft	658815-031
BH 159	S	04.14.2020 00:00	4.5 ft	658815-032
BH 160	S	04.14.2020 00:00	4.5 ft	658815-033
BH 161	S	04.14.2020 00:00	4.5 ft	658815-034
BH 162	S	04.14.2020 00:00	4.5 ft	658815-035
BH 163	S	04.14.2020 00:00	4.5 ft	658815-036
BH 164	S	04.14.2020 00:00	4.5 ft	658815-037
BH 165	S	04.14.2020 00:00	4.5 ft	658815-038
BH 166	S	04.14.2020 00:00	4.5 ft	658815-039
BH 167	S	04.14.2020 00:00	4.5 ft	658815-040
BH 168	S	04.14.2020 00:00	4.5 ft	658815-041
S3 SW	S	04.14.2020 00:00	4.5 ft	658815-042
W3 SW	S	04.14.2020 00:00	4.5 ft	658815-043

Sample Cross Reference 658815

Tetra Tech- Midland, Midland, TX

Audacious-Fearless Layflat Release

W4 SW	S	04.14.2020 00:00	4.5 ft	658815-044
W6 SW	S	04.14.2020 00:00	4.5 ft	658815-045
W5 SW	S	04.14.2020 00:00	4.5 ft	658815-046

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Audacious-Fearless Layflat Release

Project ID: *212C-MD-02133*
Work Order Number(s): *658815*

Report Date: *04.15.2020*
Date Received: *04.14.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123048 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3123074 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3123075 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658815-001		658815-002		658815-003		658815-004		658815-005		658815-006	
	Field Id:	BH 128		BH 129		BH 130		BH 131		BH 132		BH 133	
	Depth:	3.5- ft		3.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30	
	Analyzed:	04.14.2020 20:56		04.14.2020 21:17		04.14.2020 21:37		04.14.2020 21:57		04.14.2020 22:18		04.14.2020 22:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00396	0.00396	<0.00399	0.00399	<0.00400	0.00400	<0.00399	0.00399	<0.00399	0.00399	<0.00401	0.00401
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30	
	Analyzed:	04.14.2020 18:41		04.14.2020 18:57		04.14.2020 19:02		04.14.2020 19:08		04.14.2020 19:13		04.14.2020 19:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		59.1	9.94	38.3	9.90	726	9.96	384	9.96	188	10.0	78.7	9.90
TPH By SW8015 Mod	***Extracted:***	04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10	
	Analyzed:	04.14.2020 20:33		04.14.2020 20:53		04.14.2020 21:13		04.14.2020 21:34		04.14.2020 21:54		04.14.2020 22:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.2	50.2	<50.0	50.0	<50.3	50.3	<50.0	50.0	<50.3	50.3
Diesel Range Organics (DRO)		<50.3	50.3	<50.2	50.2	<50.0	50.0	<50.3	50.3	<50.0	50.0	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.2	50.2	<50.0	50.0	<50.3	50.3	<50.0	50.0	<50.3	50.3
Total TPH		<50.3	50.3	<50.2	50.2	<50.0	50.0	<50.3	50.3	<50.0	50.0	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested		658815-007		658815-008		658815-009		658815-010		658815-011		658815-012	
	Field Id:	BH 134		BH 135		BH 136		BH 137		BH 138		BH 139	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30	
	Analyzed:	04.15.2020 00:00		04.15.2020 00:20		04.15.2020 00:40		04.15.2020 01:01		04.15.2020 01:21		04.15.2020 01:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00399	0.00399	<0.00400	0.00400	<0.00399	0.00399	<0.00399	0.00399	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30	
	Analyzed:	04.14.2020 19:24		04.14.2020 19:41		04.14.2020 19:46		04.14.2020 20:03		04.14.2020 20:08		04.14.2020 20:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		269	9.90	242	9.92	221	9.90	374	9.92	10.8	10.0	591	10.0
TPH By SW8015 Mod	*Extracted:*	04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10	
	Analyzed:	04.14.2020 22:55		04.14.2020 23:14		04.14.2020 23:35		04.14.2020 23:55		04.15.2020 00:15		04.15.2020 00:35	
	Units/RL:	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	<50.1	50.1	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3
Diesel Range Organics (DRO)		<50.0	50.0	<50.1	50.1	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.1	50.1	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3
Total TPH		<50.0	50.0	<50.1	50.1	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.3	50.3

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested		658815-013		658815-014		658815-015		658815-016		658815-017		658815-018	
	Lab Id:	658815-013		658815-014		658815-015		658815-016		658815-017		658815-018	
	Field Id:	BH 140		BH 141		BH 142		BH 143		BH 144		BH 145	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:39		04.14.2020 17:39	
	Analyzed:	04.15.2020 02:02		04.15.2020 02:22		04.15.2020 02:43		04.15.2020 03:03		04.14.2020 20:23		04.14.2020 20:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00398	0.00398	<0.00402	0.00402	<0.00398	0.00398	<0.00404	0.00404	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 16:30		04.14.2020 18:13		04.14.2020 18:13	
	Analyzed:	04.14.2020 20:19		04.14.2020 20:25		04.14.2020 20:30		04.14.2020 20:36		04.14.2020 21:08		04.14.2020 21:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		644	9.98	573	9.96	717	9.96	321	9.96	454	10.0	403	9.92
TPH By SW8015 Mod	*Extracted:*	04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10	
	Analyzed:	04.15.2020 00:56		04.15.2020 01:16		04.15.2020 01:36		04.15.2020 01:56		04.15.2020 09:51		04.15.2020 09:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.1	50.1
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.1	50.1
Total TPH		<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2	<49.9	49.9	<50.1	50.1

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested		658815-019		658815-020		658815-021		658815-022		658815-023		658815-024	
	Field Id:	BH 146		BH 147		BH 148		BH 149		BH 150		BH 151	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39	
	Analyzed:	04.14.2020 21:03		04.14.2020 21:24		04.14.2020 21:44		04.14.2020 22:05		04.14.2020 22:25		04.14.2020 22:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00399	0.00399	<0.00396	0.00396	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13	
	Analyzed:	04.14.2020 21:30		04.14.2020 21:36		04.14.2020 21:41		04.14.2020 21:58		04.14.2020 22:03		04.14.2020 22:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		405	9.98	479	9.94	1410	9.94	1000	9.98	1070	10.0	1490	10.0
TPH By SW8015 Mod	*Extracted:*	04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10	
	Analyzed:	04.14.2020 19:53		04.14.2020 20:13		04.14.2020 20:33		04.14.2020 20:53		04.14.2020 21:13		04.14.2020 21:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.0	50.0	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.0	50.0	<49.9	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.0	50.0	<49.9	49.9	<49.8	49.8
Total TPH		<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.0	50.0	<49.9	49.9	<49.8	49.8

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	658815-025		658815-026		658815-027		658815-028		658815-029		658815-030	
	Field Id:	BH 152		BH 153		BH 154		BH 155		BH 156		BH 157	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39	
	Analyzed:	04.14.2020 23:06		04.14.2020 23:26		04.15.2020 00:27		04.15.2020 00:48		04.15.2020 01:08		04.15.2020 01:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Toluene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Ethylbenzene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
m,p-Xylenes		<0.00403	0.00403	<0.00401	0.00401	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402	<0.00398	0.00398
o-Xylene		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Total Xylenes		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Total BTEX		<0.00202	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13	
	Analyzed:	04.14.2020 22:14		04.14.2020 22:20		04.14.2020 22:26		04.14.2020 22:44		04.14.2020 22:50		04.14.2020 23:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1210	9.90	1370	10.1	72.9	10.0	111	10.0	<10.1	10.1	69.6	10.1
TPH By SW8015 Mod	***Extracted:***	04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10	
	Analyzed:	04.14.2020 21:54		04.14.2020 22:14		04.14.2020 22:55		04.14.2020 23:14		04.14.2020 23:35		04.14.2020 23:55	
	Units/RL:	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	<50.1	50.1	<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.1	50.1
Diesel Range Organics (DRO)		<50.0	50.0	<50.1	50.1	<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.1	50.1	<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.1	50.1
Total TPH		<50.0	50.0	<50.1	50.1	<49.8	49.8	<50.3	50.3	<49.9	49.9	<50.1	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested		658815-031		658815-032		658815-033		658815-034		658815-035		658815-036	
	Field Id:	BH 158		BH 159		BH 160		BH 161		BH 162		BH 163	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	*Extracted:*	04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39		04.14.2020 17:39	
	Analyzed:	04.15.2020 01:49		04.15.2020 02:09		04.15.2020 02:30		04.15.2020 02:50		04.15.2020 03:10		04.15.2020 03:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00401	0.00401	<0.00399	0.00399	<0.00399	0.00399	<0.00401	0.00401
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13		04.14.2020 18:13	
	Analyzed:	04.14.2020 23:13		04.14.2020 23:19		04.14.2020 23:25		04.14.2020 23:31		04.14.2020 23:37		04.14.2020 23:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		69.6	9.98	<9.96	9.96	1280	9.92	917	10.0	1560	9.92	1940	9.98
TPH By SW8015 Mod	*Extracted:*	04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10		04.14.2020 17:10	
	Analyzed:	04.15.2020 00:15		04.15.2020 00:35		04.15.2020 00:56		04.15.2020 01:16		04.15.2020 01:36		04.15.2020 01:56	
	Units/RL:	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	<50.1	50.1	<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.2	50.2
Diesel Range Organics (DRO)		<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.2	50.2
Total TPH		<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.1	50.1	<49.9	49.9	<50.2	50.2

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested		658815-037		658815-038		658815-039		658815-040		658815-041		658815-042	
	Field Id:	BH 164		BH 165		BH 166		BH 167		BH 168		S3 SW	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00	
	Analyzed:	04.15.2020 06:34		04.15.2020 06:55		04.15.2020 07:15		04.15.2020 07:36		04.15.2020 07:56		04.15.2020 08:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
m,p-Xylenes		<0.00399	0.00399	<0.00399	0.00399	<0.00404	0.00404	<0.00400	0.00400	<0.00398	0.00398	<0.00397	0.00397
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00	
	Analyzed:	04.15.2020 00:19		04.15.2020 00:37		04.15.2020 00:42		04.15.2020 00:48		04.15.2020 00:54		04.15.2020 01:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1640	9.96	997	9.92	1660	10.1	275	9.92	1650	9.96	458	9.96
TPH By SW8015 Mod	***Extracted:***	04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30	
	Analyzed:	04.15.2020 04:17		04.15.2020 05:17		04.15.2020 05:37		04.15.2020 05:57		04.15.2020 10:52		04.15.2020 11:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.1	50.1
Diesel Range Organics (DRO)		<50.3	50.3	<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.1	50.1
Total TPH		<50.3	50.3	<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.8	49.8	<50.1	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 658815

Tetra Tech- Midland, Midland, TX

Project Name: Audacious-Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.14.2020 16:10
Report Date: 04.15.2020 13:51
Project Manager: Jessica Kramer

Analysis Requested		658815-043		658815-044		658815-045		658815-046			
	Field Id:	W3 SW		W4 SW		W6 SW		W5 SW			
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00		04.14.2020 00:00			
BTEX by EPA 8021B	*Extracted:*	04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00			
	Analyzed:	04.15.2020 08:37		04.15.2020 08:57		04.15.2020 09:18		04.15.2020 09:38			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
m,p-Xylenes		<0.00399	0.00399	<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401		
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200		
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00		04.14.2020 18:00			
	Analyzed:	04.15.2020 01:18		04.15.2020 01:24		04.15.2020 01:30		04.15.2020 01:36			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		<9.98	9.98	16.4	10.0	107	9.94	<10.0	10.0		
TPH By SW8015 Mod	*Extracted:*	04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30		04.14.2020 17:30			
	Analyzed:	04.15.2020 10:52		04.15.2020 07:17		04.15.2020 11:32		04.15.2020 07:58			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1		
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1		
Total TPH		<50.0	50.0	<49.9	49.9	<50.2	50.2	<50.1	50.1		

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Jessica Kramer
Project Manager

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

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123039 **Sample:** 658815-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 19:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	101	101	70-135	
o-Terphenyl	53.1	50.3	106	70-135	

Lab Batch #: 3123039 **Sample:** 658815-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 20:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	59.5	50.1	119	70-135	

Lab Batch #: 3123060 **Sample:** 658815-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 20:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	101	99	70-135	
o-Terphenyl	52.7	50.3	105	70-135	

Lab Batch #: 3123039 **Sample:** 658815-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 20:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.4	100	95	70-135	
o-Terphenyl	49.7	50.1	99	70-135	

Lab Batch #: 3123060 **Sample:** 658815-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 20:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	53.6	50.2	107	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123039 **Sample:** 658815-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 20:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.9	109	70-135	
o-Terphenyl	58.2	50.0	116	70-135	

Lab Batch #: 3123060 **Sample:** 658815-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 21:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.6	100	96	70-135	
o-Terphenyl	52.5	50.0	105	70-135	

Lab Batch #: 3123039 **Sample:** 658815-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 21:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.8	99.7	96	70-135	
o-Terphenyl	50.5	49.9	101	70-135	

Lab Batch #: 3123060 **Sample:** 658815-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 21:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	101	96	70-135	
o-Terphenyl	53.5	50.3	106	70-135	

Lab Batch #: 3123039 **Sample:** 658815-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 21:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.6	103	70-135	
o-Terphenyl	54.5	49.8	109	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123060 **Sample:** 658815-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 21:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.4	100	94	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

Lab Batch #: 3123039 **Sample:** 658815-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 21:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.6	99.9	100	70-135	
o-Terphenyl	52.3	50.0	105	70-135	

Lab Batch #: 3123060 **Sample:** 658815-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 22:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	101	99	70-135	
o-Terphenyl	54.6	50.3	109	70-135	

Lab Batch #: 3123039 **Sample:** 658815-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 22:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.3	100	96	70-135	
o-Terphenyl	49.6	50.1	99	70-135	

Lab Batch #: 3123060 **Sample:** 658815-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 22:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.5	100	100	70-135	
o-Terphenyl	52.4	50.0	105	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123039 **Sample:** 658815-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 22:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.5	109	70-135	
o-Terphenyl	57.3	49.8	115	70-135	

Lab Batch #: 3123060 **Sample:** 658815-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 23:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	52.5	50.1	105	70-135	

Lab Batch #: 3123039 **Sample:** 658815-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 23:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.1	101	98	70-135	
o-Terphenyl	51.7	50.3	103	70-135	

Lab Batch #: 3123060 **Sample:** 658815-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 23:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	99.5	98	70-135	
o-Terphenyl	51.8	49.8	104	70-135	

Lab Batch #: 3123039 **Sample:** 658815-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 23:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.7	108	70-135	
o-Terphenyl	57.7	49.9	116	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123060 **Sample:** 658815-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 23:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.9	100	99	70-135	
o-Terphenyl	54.0	50.1	108	70-135	

Lab Batch #: 3123039 **Sample:** 658815-030 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 23:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	52.8	50.1	105	70-135	

Lab Batch #: 3123060 **Sample:** 658815-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 00:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.9	101	97	70-135	
o-Terphenyl	48.9	50.3	97	70-135	

Lab Batch #: 3123039 **Sample:** 658815-031 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 00:15

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	54.9	49.9	110	70-135	

Lab Batch #: 3123060 **Sample:** 658815-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 00:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	101	102	70-135	
o-Terphenyl	53.5	50.3	106	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123039 **Sample:** 658815-032 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 00:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	52.8	50.1	105	70-135	

Lab Batch #: 3123060 **Sample:** 658815-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 00:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.2	99.6	99	70-135	
o-Terphenyl	54.3	49.8	109	70-135	

Lab Batch #: 3123039 **Sample:** 658815-033 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 00:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.2	99.8	99	70-135	
o-Terphenyl	52.0	49.9	104	70-135	

Lab Batch #: 3123060 **Sample:** 658815-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 01:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.7	102	70-135	
o-Terphenyl	55.4	49.9	111	70-135	

Lab Batch #: 3123039 **Sample:** 658815-034 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 01:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	52.0	50.1	104	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123060 **Sample:** 658815-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 01:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	101	100	70-135	
o-Terphenyl	54.7	50.3	109	70-135	

Lab Batch #: 3123039 **Sample:** 658815-035 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 01:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.8	102	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3123060 **Sample:** 658815-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 01:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.8	100	97	70-135	
o-Terphenyl	52.5	50.2	105	70-135	

Lab Batch #: 3123039 **Sample:** 658815-036 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 01:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	52.1	50.2	104	70-135	

Lab Batch #: 3123084 **Sample:** 658815-037 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 04:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.6	101	95	70-135	
o-Terphenyl	50.7	50.3	101	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123084 **Sample:** 658815-038 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 05:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.8	101	99	70-135	
o-Terphenyl	54.5	50.3	108	70-135	

Lab Batch #: 3123084 **Sample:** 658815-039 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 05:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.5	99.7	98	70-135	
o-Terphenyl	53.6	49.9	107	70-135	

Lab Batch #: 3123084 **Sample:** 658815-040 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 05:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.3	99.6	88	70-135	
o-Terphenyl	47.6	49.8	96	70-135	

Lab Batch #: 3123084 **Sample:** 658815-044 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 07:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.8	118	70-135	
o-Terphenyl	63.9	49.9	128	70-135	

Lab Batch #: 3123084 **Sample:** 658815-046 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 07:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.0	100	85	70-135	
o-Terphenyl	46.0	50.1	92	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123039 **Sample:** 658815-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 09:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.5	100	99	70-135	
o-Terphenyl	52.3	50.1	104	70-135	

Lab Batch #: 3123039 **Sample:** 658815-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 09:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	99.7	96	70-135	
o-Terphenyl	50.9	49.9	102	70-135	

Lab Batch #: 3123084 **Sample:** 658815-041 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 10:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.2	99.6	100	70-135	
o-Terphenyl	54.6	49.8	110	70-135	

Lab Batch #: 3123084 **Sample:** 658815-043 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 10:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.3	100	96	70-135	
o-Terphenyl	51.2	50.0	102	70-135	

Lab Batch #: 3123084 **Sample:** 658815-042 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 11:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.6	100	95	70-135	
o-Terphenyl	51.2	50.1	102	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123084 **Sample:** 658815-045 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 11:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.3	100	93	70-135	
o-Terphenyl	49.6	50.2	99	70-135	

Lab Batch #: 3123060 **Sample:** 7701297-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.14.2020 13:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	57.3	50.0	115	70-135	

Lab Batch #: 3123039 **Sample:** 7701298-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.14.2020 13:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

Lab Batch #: 3123084 **Sample:** 7701317-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.15.2020 03:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.8	100	92	70-135	
o-Terphenyl	49.3	50.0	99	70-135	

Lab Batch #: 3123060 **Sample:** 7701297-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.14.2020 13:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	55.1	50.0	110	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123039 **Sample:** 7701298-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.14.2020 13:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	49.8	50.0	100	70-135	

Lab Batch #: 3123084 **Sample:** 7701317-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.15.2020 03:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	55.1	50.0	110	70-135	

Lab Batch #: 3123060 **Sample:** 7701297-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.14.2020 14:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	53.6	50.0	107	70-135	

Lab Batch #: 3123039 **Sample:** 7701298-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.14.2020 14:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	49.5	50.0	99	70-135	

Lab Batch #: 3123084 **Sample:** 7701317-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.15.2020 03:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	53.1	50.0	106	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123060 **Sample:** 658797-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 18:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	57.7	50.1	115	70-135	

Lab Batch #: 3123039 **Sample:** 658815-017 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 18:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	57.8	50.0	116	70-135	

Lab Batch #: 3123084 **Sample:** 658815-037 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 04:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	59.7	50.1	119	70-135	

Lab Batch #: 3123060 **Sample:** 658797-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 19:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.6	116	70-135	
o-Terphenyl	55.5	49.8	111	70-135	

Lab Batch #: 3123039 **Sample:** 658815-017 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.14.2020 19:12

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	51.2	50.1	102	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Orders: 658815 **Project ID:** 212C-MD-02133

Lab Batch #: 3123084 **Sample:** 658815-037 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.15.2020 04:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.6	119	70-135	
o-Terphenyl	58.4	49.8	117	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

BS / BSD Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Order #: 658815 **Project ID:** 212C-MD-02133

Analyst: DTH **Date Prepared:** 04.14.2020 **Date Analyzed:** 04.14.2020

Lab Batch ID: 3123060 **Sample:** 7701297-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1000	1010	101	4	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1000	1020	102	3	70-135	35	

Analyst: DTH **Date Prepared:** 04.14.2020 **Date Analyzed:** 04.14.2020

Lab Batch ID: 3123039 **Sample:** 7701298-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	980	98	1000	968	97	1	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	1000	1080	108	2	70-135	35	

Analyst: DTH **Date Prepared:** 04.14.2020 **Date Analyzed:** 04.15.2020

Lab Batch ID: 3123084 **Sample:** 7701317-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	961	96	1000	964	96	0	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1000	1100	110	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Order # : 658815 **Project ID:** 212C-MD-02133

Lab Batch ID: 3123039 **QC- Sample ID:** 658815-017 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.14.2020 **Date Prepared:** 04.14.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1000	925	93	13	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1200	120	1000	1050	105	13	70-135	35	

Lab Batch ID: 3123060 **QC- Sample ID:** 658797-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.14.2020 **Date Prepared:** 04.14.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	995	100	996	1000	100	1	70-135	35	
Diesel Range Organics (DRO)	<50.1	1000	1150	115	996	1140	114	1	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious-Fearless Layflat Release

Work Order # : 658815 **Project ID:** 212C-MD-02133

Lab Batch ID: 3123084 **QC- Sample ID:** 658815-037 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.15.2020 **Date Prepared:** 04.14.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1060	106	996	1010	101	5	70-135	35	
Diesel Range Organics (DRO)	<50.1	1000	1220	122	996	1170	117	4	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

1658815

Page 1 of 5

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious – Fearless Layflat Release

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG – James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Loganda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 128 3.5' bgb	4/14			X			X		1	N	X		X												X						
	BH 129 3.5' bgb																															
	BH 130 4.5' bgb																															
	BH 131																															
	BH 132																															
	BH 133																															
	BH 134																															
	BH 135																															
	BH 136																															
	BH 137																															

Relinquished by: Date: 4/14/20 Time: 1610

Received by: Date: 4/14/20 Time: 1610

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 1.8

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 #:

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Analysis Request of Chain of Custody Record

Page 2 of 5

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious – Fearless Lay Flat Release

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Ligarda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	BH 138 4.5' bgs	4/14			X			X		1	N
	BH 139										
	BH 140										
	BH 141										
	BH 142										
	BH 143										
	BH 144										
	BH 145										
	BH 146										
	BH 147										

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
X		X												X								

Relinquished by: Date: 4/14/20 Time: 1610

Received by: Date: 4/14/20 Time: 1610

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 1.8

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 #:

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658815

Analysis Request of Chain of Custody Record

Page 3 of 5

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious — Fearless

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - Jamis Kennedy

Receiving Laboratory:

Sampler Signature: Tony Legarda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: ~~2019~~ 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
	B 1+ 148	4.5' bgb	4/14		X			X		1	N	X		X												X										
	B 1+ 149																																			
	B 1+ 150																																			
	B 1+ 151																																			
	B 1+ 152																																			
	B 1+ 153																																			
	B 1+ 154																																			
	B 1+ 155																																			
	B 1+ 156																																			
	B 1+ 157																																			

Relinquished by: Date: 4/14/20 Time: 1610

Received by: Date: 4/14 Time: 1610

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature

1-8

REMARKS:

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

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Analysis Request of Chain of Custody Record

Page 4 of 5

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless

Project Location (county, state): Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory:

Sampler Signature: Tony Loyardo

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 158 4.5' bgs	4/14			X			X		1	N	X		X											X				
	BH 159																												
	BH 160																												
	BH 161																												
	BH 162																												
	BH 163																												
	BH 164																												
	BH 165																												
	BH 166																												
	BH 167																												

Relinquished by: Date: 4/14/20 Time: 1610

Received by: Date: 4/14/20 Time: 1610

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 1.8

REMARKS:

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

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Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasbad, NM (432) 704-5440
Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 www.xenco.com

Work Order No: 698819

Page 5 of 5

Project Manager:	Mike Carmona	Bill to: (if different)	EOG - James Kennedy
Company Name:	TetraTech	Company Name:	EOG
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	Email:		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Audacious - Fearless	Turn Around	
Project Number:	212C-MD-02133	Routine ☐	
Project Location	Loving, NM	Rush: 48	
Sampler's Name:	Tony Laycock	Due Date:	
PO #:	Quote #:		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes ~~No~~
Temperature (°C):	1.8	Thermometer ID	IR-NM-007
Received Intact:	Yes No		
Cooler Custody Seals:	Yes ~~No~~ N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Pres. Code	BTEX 8021 & 8260	TPH 8015M	Chloride
	BH 168 4.5' bgs	Soil	4/14/23		4.5'	1				
	S3 SW									
	W3 SW									
	W4 SW									
	W6 SW									
	W5 SW									

ANALYSIS REQUEST

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/14/23 1610	2		
			4		
			6		

Revised Date 022619 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 04.14.2020 04.10.00 PM

Work Order #: 658815

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)?	1.8
#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)?	**No**
#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: Elizabeth McClellan Date: 04.14.2020

Checklist reviewed by: Jessica Kramer Date: 04.15.2020

Jessica Kramer

Analytical Report 659105

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Audacious -Fearless Lay flat Release

212C-MD-02133

04.20.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.20.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659105**
Audacious -Fearless Lay flat Release
Project Address: Lea, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659105. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659105 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 659105

Tetra Tech- Midland, Midland, TX

Audacious -Fearless Lay flat Release

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH 169	S	04.16.2020 10:00	4.5 ft	659105-001
BH 170	S	04.16.2020 10:00	4.5 ft	659105-002
BH 171	S	04.16.2020 10:00	4.5 ft	659105-003
BH 172	S	04.16.2020 10:00	4.5 ft	659105-004
BH 173	S	04.16.2020 10:00	4.5 ft	659105-005
BH 174	S	04.16.2020 10:00	4.5 ft	659105-006
BH 175	S	04.16.2020 10:00	4.5 ft	659105-007
BH 176	S	04.16.2020 10:00	4.5 ft	659105-008
BH 177	S	04.16.2020 10:00	4.5 ft	659105-009
BH 178	S	04.16.2020 10:00	4.5 ft	659105-010
BH 179	S	04.16.2020 10:00	4.5 ft	659105-011
BH 180	S	04.16.2020 10:00	4.5 ft	659105-012
BH 181	S	04.16.2020 10:00	4.5 ft	659105-013
BH 182	S	04.16.2020 10:00	4.5 ft	659105-014
BH 183	S	04.16.2020 10:00	4.5 ft	659105-015
BH 184	S	04.16.2020 10:00	4.5 ft	659105-016
BH 185	S	04.16.2020 10:00	4.5 ft	659105-017
BH 186	S	04.16.2020 10:00	4.5 ft	659105-018
BH 187	S	04.16.2020 10:00	4.5 ft	659105-019
BH 188	S	04.16.2020 10:00	4.5 ft	659105-020
BH 189	S	04.16.2020 10:00	4.5 ft	659105-021
BH 190	S	04.16.2020 10:00	4.5 ft	659105-022
BH 191	S	04.16.2020 10:00	4.5 ft	659105-023
BH 192	S	04.16.2020 10:00	4.5 ft	659105-024
BH 193	S	04.16.2020 10:00	4.5 ft	659105-025
BH 194	S	04.16.2020 10:00	4.5 ft	659105-026
W7 SW	S	04.16.2020 10:00		659105-027
W8 SW	S	04.16.2020 10:00		659105-028
W9 SW	S	04.16.2020 10:00		659105-029

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Audacious -Fearless Lay flat Release

Project ID: *212C-MD-02133*
Work Order Number(s): *659105*

Report Date: *04.20.2020*
Date Received: *04.16.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123367 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3123435 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 659105

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless Lay flat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Thu 04.16.2020 15:56
Report Date: 04.20.2020 13:14
Project Manager: Jessica Kramer

Analysis Requested		659105-001		659105-002		659105-003		659105-004		659105-005		659105-006	
	Field Id:	BH 169		BH 170		BH 171		BH 172		BH 173		BH 174	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00	
BTEX by EPA 8021B	***Extracted:***	04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04	
	Analyzed:	04.17.2020 20:01		04.17.2020 20:22		04.17.2020 20:42		04.17.2020 21:02		04.17.2020 21:23		04.17.2020 21:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00396	0.00396	<0.00402	0.00402	<0.00401	0.00401	<0.00401	0.00401
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00	
	Analyzed:	04.17.2020 08:05		04.17.2020 08:22		04.17.2020 08:27		04.17.2020 08:32		04.17.2020 08:38		04.17.2020 08:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		939	9.94	618	9.98	518	9.92	529	9.98	25.2	9.96	235	10.0
TPH By SW8015 Mod	***Extracted:***	04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40	
	Analyzed:	04.17.2020 01:42		04.17.2020 02:03		04.17.2020 02:23		04.17.2020 02:43		04.17.2020 03:04		04.17.2020 03:24	
	Units/RL:	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	<50.1	50.1	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		<50.0	50.0	<50.1	50.1	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.1	50.1	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8
Total TPH		<50.0	50.0	<50.1	50.1	<50.1	50.1	<49.9	49.9	<49.9	49.9	<49.8	49.8

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 659105

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless Lay flat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Thu 04.16.2020 15:56
Report Date: 04.20.2020 13:14
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	659105-007		659105-008		659105-009		659105-010		659105-011		659105-012	
	Field Id:	BH 175		BH 176		BH 177		BH 178		BH 179		BH 180	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00	
BTEX by EPA 8021B	***Extracted:***	04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04	
	Analyzed:	04.17.2020 22:04		04.17.2020 22:24		04.17.2020 22:44		04.17.2020 23:05		04.18.2020 00:06		04.18.2020 00:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00401	0.00401	<0.00395	0.00395	<0.00398	0.00398	<0.00399	0.00399	<0.00399	0.00399	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00	
	Analyzed:	04.17.2020 09:00		04.17.2020 09:05		04.17.2020 09:11		04.17.2020 09:16		04.17.2020 09:22		04.17.2020 09:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		10.1	10.0	<9.90	9.90	<9.98	9.98	18.4	9.98	<9.98	9.98	19.1	9.98
TPH By SW8015 Mod	***Extracted:***	04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40	
	Analyzed:	04.17.2020 03:44		04.17.2020 04:24		04.17.2020 04:45		04.17.2020 05:05		04.17.2020 05:25		04.17.2020 05:45	
	Units/RL:	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	<50.2	50.2	<50.0	50.0	<50.3	50.3	<49.9	49.9	<50.2	50.2
Diesel Range Organics (DRO)		<49.9	49.9	<50.2	50.2	<50.0	50.0	<50.3	50.3	<49.9	49.9	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.2	50.2	<50.0	50.0	<50.3	50.3	<49.9	49.9	<50.2	50.2
Total TPH		<49.9	49.9	<50.2	50.2	<50.0	50.0	<50.3	50.3	<49.9	49.9	<50.2	50.2

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 659105

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless Lay flat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Thu 04.16.2020 15:56
Report Date: 04.20.2020 13:14
Project Manager: Jessica Kramer

Analysis Requested		659105-013		659105-014		659105-015		659105-016		659105-017		659105-018	
	Lab Id:	659105-013		659105-014		659105-015		659105-016		659105-017		659105-018	
	Field Id:	BH 181		BH 182		BH 183		BH 184		BH 185		BH 186	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00	
BTEX by EPA 8021B	*Extracted:*	04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04		04.17.2020 08:04	
	Analyzed:	04.18.2020 00:47		04.18.2020 01:07		04.18.2020 01:27		04.18.2020 01:48		04.18.2020 02:08		04.18.2020 02:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00198	0.00198
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00198	0.00198
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00198	0.00198
m,p-Xylenes		<0.00397	0.00397	<0.00401	0.00401	<0.00402	0.00402	<0.00396	0.00396	<0.00402	0.00402	<0.00396	0.00396
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00198	0.00198
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00198	0.00198
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00201	0.00201	<0.00198	0.00198	<0.00201	0.00201	<0.00198	0.00198
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00		04.17.2020 07:00	
	Analyzed:	04.17.2020 09:44		04.17.2020 10:00		04.17.2020 10:06		04.17.2020 10:11		04.17.2020 10:17		04.17.2020 10:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<9.88	9.88	<9.92	9.92	<9.96	9.96	10.8	10.0	280	10.1	21.7	10.0
TPH By SW8015 Mod	*Extracted:*	04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:40		04.16.2020 17:50	
	Analyzed:	04.17.2020 06:05		04.17.2020 06:25		04.17.2020 06:45		04.17.2020 07:06		04.17.2020 07:26		04.17.2020 10:11	
	Units/RL:	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	<49.8	49.8	<49.8	49.8	<49.8	49.8	<49.9	49.9	<50.1	50.1
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8	<49.9	49.9	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8	<49.9	49.9	<50.1	50.1
Total TPH		<49.9	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8	<49.9	49.9	<50.1	50.1

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 659105

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless Lay flat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Thu 04.16.2020 15:56
Report Date: 04.20.2020 13:14
Project Manager: Jessica Kramer

Analysis Requested		659105-019		659105-020		659105-021		659105-022		659105-023		659105-024	
	Field Id:	BH 187		BH 188		BH 189		BH 190		BH 191		BH 192	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00	
BTEX by EPA 8021B	*Extracted:*	04.17.2020 08:04		04.17.2020 08:04		04.16.2020 17:57		04.16.2020 17:57		04.16.2020 17:57		04.16.2020 17:57	
	Analyzed:	04.18.2020 02:49		04.18.2020 03:09		04.17.2020 13:13		04.17.2020 13:33		04.17.2020 14:35		04.17.2020 14:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00402	0.00402	<0.00396	0.00396	<0.00399	0.00399	<0.00396	0.00396	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00201	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	*Extracted:*	04.17.2020 07:00		04.17.2020 07:00		04.16.2020 17:21		04.16.2020 17:21		04.16.2020 17:21		04.16.2020 17:21	
	Analyzed:	04.17.2020 10:27		04.17.2020 10:33		04.16.2020 22:37		04.16.2020 22:55		04.16.2020 23:01		04.16.2020 23:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		28.8	9.98	<9.98	9.98	<9.98	9.98	24.8	9.92	<9.92	9.92	78.2	9.98
TPH By SW8015 Mod	*Extracted:*	04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50	
	Analyzed:	04.17.2020 11:12		04.17.2020 11:32		04.17.2020 11:52		04.17.2020 12:12		04.17.2020 12:32		04.17.2020 12:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.3	50.3
Diesel Range Organics (DRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.3	50.3
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.3	50.3
Total TPH		<50.1	50.1	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.1	50.1	<50.3	50.3

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 659105

Tetra Tech- Midland, Midland, TX

Project Name: Audacious -Fearless Lay flat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Thu 04.16.2020 15:56
Report Date: 04.20.2020 13:14
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	659105-025		659105-026		659105-027		659105-028		659105-029	
	Field Id:	BH 193		BH 194		W7 SW		W8 SW		W9 SW	
	Depth:	4.5- ft		4.5- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00		04.16.2020 10:00	
BTEX by EPA 8021B	***Extracted:***	04.16.2020 17:57		04.16.2020 17:57		04.16.2020 17:57		04.16.2020 17:57		04.16.2020 17:57	
	Analyzed:	04.17.2020 15:16		04.17.2020 15:56		04.17.2020 16:17		04.17.2020 16:37		04.17.2020 16:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		<0.00401	0.00401	<0.00401	0.00401	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.16.2020 17:21		04.16.2020 17:21		04.16.2020 17:21		04.16.2020 17:21		04.16.2020 17:21	
	Analyzed:	04.16.2020 23:25		04.16.2020 23:31		04.16.2020 23:36		04.16.2020 23:42		04.16.2020 23:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		61.3	10.0	420	9.92	107	9.96	546	9.98	393	9.98
TPH By SW8015 Mod	***Extracted:***	04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50		04.16.2020 17:50	
	Analyzed:	04.17.2020 13:12		04.17.2020 13:32		04.17.2020 13:53		04.17.2020 16:15		04.17.2020 16:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.2	50.2
Total TPH		<50.2	50.2	<50.3	50.3	<50.1	50.1	<49.8	49.8	<50.2	50.2

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Project Manager

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123367 **Sample:** 659105-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 13:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3123367 **Sample:** 659105-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 13:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0292	0.0300	97	70-130	

Lab Batch #: 3123367 **Sample:** 659105-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 14:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

Lab Batch #: 3123367 **Sample:** 659105-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 14:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

Lab Batch #: 3123367 **Sample:** 659105-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 15:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123367 **Sample:** 659105-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 15:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3123367 **Sample:** 659105-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 16:17

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

Lab Batch #: 3123367 **Sample:** 659105-028 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 16:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0299	0.0300	100	70-130	

Lab Batch #: 3123367 **Sample:** 659105-029 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 16:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0299	0.0300	100	70-130	

Lab Batch #: 3123435 **Sample:** 659105-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 20:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123435 **Sample:** 659105-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 20:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0293	0.0300	98	70-130	

Lab Batch #: 3123435 **Sample:** 659105-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 20:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

Lab Batch #: 3123435 **Sample:** 659105-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 21:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0302	0.0300	101	70-130	

Lab Batch #: 3123435 **Sample:** 659105-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 21:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0292	0.0300	97	70-130	

Lab Batch #: 3123435 **Sample:** 659105-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 21:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123435 **Sample:** 659105-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 22:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3123435 **Sample:** 659105-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 22:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0293	0.0300	98	70-130	

Lab Batch #: 3123435 **Sample:** 659105-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 22:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3123435 **Sample:** 659105-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 23:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

Lab Batch #: 3123435 **Sample:** 659105-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 00:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	70-130	
4-Bromofluorobenzene	0.0295	0.0300	98	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123435 **Sample:** 659105-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 00:26

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3123435 **Sample:** 659105-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 00:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0295	0.0300	98	70-130	

Lab Batch #: 3123435 **Sample:** 659105-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 01:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3123435 **Sample:** 659105-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 01:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0290	0.0300	97	70-130	

Lab Batch #: 3123435 **Sample:** 659105-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 01:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123435 **Sample:** 659105-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 02:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

Lab Batch #: 3123435 **Sample:** 659105-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 02:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0283	0.0300	94	70-130	

Lab Batch #: 3123435 **Sample:** 659105-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 02:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0290	0.0300	97	70-130	

Lab Batch #: 3123435 **Sample:** 659105-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.18.2020 03:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3123367 **Sample:** 7701468-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.17.2020 07:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123435 **Sample:** 7701471-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.17.2020 17:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0286	0.0300	95	70-130	

Lab Batch #: 3123367 **Sample:** 7701468-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.17.2020 08:07

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0282	0.0300	94	70-130	

Lab Batch #: 3123435 **Sample:** 7701471-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.17.2020 18:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

Lab Batch #: 3123367 **Sample:** 7701468-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.17.2020 08:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0270	0.0300	90	70-130	

Lab Batch #: 3123435 **Sample:** 7701471-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.17.2020 18:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0277	0.0300	92	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Orders: 659105 **Project ID:** 212C-MD-02133

Lab Batch #: 3123367 **Sample:** 659115-020 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 09:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0287	0.0300	96	70-130	

Lab Batch #: 3123435 **Sample:** 659105-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 19:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

Lab Batch #: 3123367 **Sample:** 659115-020 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 09:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0315	0.0300	105	70-130	
4-Bromofluorobenzene	0.0282	0.0300	94	70-130	

Lab Batch #: 3123435 **Sample:** 659105-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.17.2020 19:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0281	0.0300	94	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

BS / BSD Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Order #: 659105 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.16.2020 **Date Analyzed:** 04.17.2020

Lab Batch ID: 3123367 **Sample:** 7701468-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.110	110	0.100	0.107	107	3	70-130	35	
Toluene	<0.00200	0.100	0.104	104	0.100	0.101	101	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0967	97	0.100	0.0939	94	3	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.200	0.192	96	4	70-135	35	
o-Xylene	<0.00200	0.100	0.102	102	0.100	0.0990	99	3	71-133	35	

Analyst: MAB **Date Prepared:** 04.17.2020 **Date Analyzed:** 04.17.2020

Lab Batch ID: 3123435 **Sample:** 7701471-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.106	106	0.100	0.102	102	4	70-130	35	
Toluene	<0.00200	0.100	0.100	100	0.100	0.0962	96	4	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0926	93	0.100	0.0895	90	3	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.190	95	0.200	0.183	92	4	70-135	35	
o-Xylene	<0.00200	0.100	0.0981	98	0.100	0.0947	95	4	71-133	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Audacious -Fearless Lay flat Release

Work Order # : 659105 **Project ID:** 212C-MD-02133

Lab Batch ID: 3123367 **QC- Sample ID:** 659115-020 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.17.2020 **Date Prepared:** 04.16.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.100	0.0834	83	0.100	0.0833	83	0	70-130	35	
Toluene	<0.00201	0.100	0.0791	79	0.100	0.0780	78	1	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0729	73	0.100	0.0722	72	1	71-129	35	
m,p-Xylenes	<0.00402	0.201	0.149	74	0.200	0.147	74	1	70-135	35	
o-Xylene	<0.00201	0.100	0.0757	76	0.100	0.0743	74	2	71-133	35	

Lab Batch ID: 3123435 **QC- Sample ID:** 659105-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.17.2020 **Date Prepared:** 04.17.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00199	0.0994	0.0874	88	0.0998	0.0945	95	8	70-130	35	
Toluene	<0.00199	0.0994	0.0807	81	0.0998	0.0862	86	7	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.0734	74	0.0998	0.0770	77	5	71-129	35	
m,p-Xylenes	<0.00398	0.199	0.150	75	0.200	0.156	78	4	70-135	35	
o-Xylene	<0.00199	0.0994	0.0780	78	0.0998	0.0829	83	6	71-133	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

659105

Page 1 of 3

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless Lay Flat Release

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Cayorda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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
	BH 169	4/16			X			X		1	N	X		X												X								
	BH 170																																	
	BH 171																																	
	BH 172																																	
	BH 173																																	
	BH 174																																	
	BH 175																																	
	BH 176																																	
	BH 177																																	
	BH 178																																	

Relinquished by: Date: 4/16/20 Time: 1600

Received by: Date: 4/16/20 Time: 1550

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

Sample Temperature 2.2

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record

659105

Page 2 of 3

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious – Fearless

Project Location: (county, state) Lea, NM

Project #: 212-C-MD-02133

Invoice to: EOG – James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Logan

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# 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
	BH 179 4.5' bgs	4/16			X			X		1	N	X		X											X				
	BH 180																												
	BH 181																												
	BH 182																												
	BH 183																												
	BH 184																												
	BH 185																												
	BH 186																												
	BH 187																												
	BH 188																												

Relinquished by: Date: 4/16/20 Time: 4/16/20

Received by: Date: 4/16/20 Time: 1556

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

Sample Temperature 2.2

REMARKS:

- [ ] STANDARD
- [x] 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

Lea 9105

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious – Feanless Lay flat Release

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG – James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Loganda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2019 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# 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
	BH 189 4.5' bgs	4/16			X			X		1	N	X		X												X			
	BH 190																												
	BH 191																												
	BH 192																												
	BH 193																												
	BH 194																												
	WTSW																												
	WSSW																												
	WQSW																												

Relinquished by: Date: 4/16/20 Time: 1600

Received by: Date: 4/16/20 Time:

Relinquished by: Date: Time:

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Relinquished by: Date: Time:

Received by: Date: Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature 2.2

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 #: _____

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 04.16.2020 03.56.00 PM

Work Order #: 659105

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)?	2.2
#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)?	**No**
#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: Elizabeth McClellan Date: 04.16.2020

Checklist reviewed by: Jessica Kramer Date: 04.17.2020

Jessica Kramer

Analytical Report 659405

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Audacious - Fearless Layflat Release

212C-MD-02133

04.22.2020

Collected By: Tony Lagunda

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.22.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659405**
Audacious - Fearless Layflat Release
Project Address: Lea, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659405. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659405 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 659405

Tetra Tech- Midland, Midland, TX

Audacious - Fearless Layflat Release

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH 195	S	04.21.2020 00:00	4.5 ft	659405-001
BH 196	S	04.21.2020 00:00	4.5 ft	659405-002
BH 197	S	04.21.2020 00:00	4.5 ft	659405-003
BH 198	S	04.21.2020 00:00	4.5 ft	659405-004
BH 199	S	04.21.2020 00:00	4.5 ft	659405-005
BH 200	S	04.21.2020 00:00	4.5 ft	659405-006
BH 201	S	04.21.2020 00:00	4.5 ft	659405-007
BH 202	S	04.21.2020 00:00	4.5 ft	659405-008
BH 203	S	04.21.2020 00:00	4.5 ft	659405-009
BH 204	S	04.21.2020 00:00	4.5 ft	659405-010
N8SW	S	04.21.2020 00:00		659405-011
W10SW	S	04.21.2020 00:00		659405-012
W3'SW	S	04.21.2020 00:00		659405-013
S3'SW	S	04.21.2020 00:00		659405-014

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Audacious - Fearless Layflat Release

Project ID: *212C-MD-02133*
Work Order Number(s): *659405*

Report Date: *04.22.2020*
Date Received: *04.21.2020*

Sample receipt non conformances and comments:

Samples received in bulk containers.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123697 BTEX by EPA 8021B
Samples received in bulk containers.

Certificate of Analysis Summary 659405

Tetra Tech- Midland, Midland, TX

Project Name: Audacious - Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.21.2020 15:30
Report Date: 04.22.2020 14:19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	659405-001		659405-002		659405-003		659405-004		659405-005		659405-006	
	Field Id:	BH 195		BH 196		BH 197		BH 198		BH 199		BH 200	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00	
	Analyzed:	04.21.2020 19:13		04.21.2020 19:33		04.21.2020 19:53		04.21.2020 20:14		04.21.2020 20:34		04.21.2020 20:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		<0.00399	0.00399	<0.00404	0.00404	<0.00401	0.00401	<0.00399	0.00399	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00	
	Analyzed:	04.21.2020 17:14		04.21.2020 17:19		04.21.2020 17:25		04.21.2020 17:41		04.21.2020 17:47		04.21.2020 17:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		575	10.1	585	10.0	516	10.0	215	9.92	227	9.96	317	9.98
TPH By SW8015 Mod	***Extracted:***	04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45	
	Analyzed:	04.21.2020 16:07		04.21.2020 17:56		04.21.2020 18:17		04.21.2020 18:37		04.21.2020 18:58		04.21.2020 19:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1
Total TPH		<49.8	49.8	<49.9	49.9	<50.0	50.0	<49.9	49.9	<50.1	50.1	<50.1	50.1

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 659405

Tetra Tech- Midland, Midland, TX

Project Name: Audacious - Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.21.2020 15:30
Report Date: 04.22.2020 14:19
Project Manager: Jessica Kramer

Analysis Requested		659405-007		659405-008		659405-009		659405-010		659405-011		659405-012	
	Field Id:	BH 201		BH 202		BH 203		BH 204		N8SW		W10SW	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00		04.21.2020 00:00	
BTEX by EPA 8021B	Extracted:	04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00		04.21.2020 18:00	
	Analyzed:	04.21.2020 21:15		04.21.2020 21:35		04.21.2020 22:37		04.21.2020 22:57		04.21.2020 23:17		04.21.2020 23:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00396	0.00396	<0.00399	0.00399	<0.00401	0.00401	<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Inorganic Anions by EPA 300/300.1	Extracted:	04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00		04.21.2020 17:00	
	Analyzed:	04.21.2020 17:58		04.21.2020 18:03		04.21.2020 18:09		04.21.2020 18:25		04.21.2020 18:31		04.21.2020 18:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		93.3	10.1	91.5	9.96	72.2	9.96	113	9.96	12.3	9.96	124	10.0
TPH By SW8015 Mod	Extracted:	04.21.2020 17:30		04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45		04.21.2020 15:45	
	Analyzed:	04.21.2020 19:38		04.21.2020 17:16		04.21.2020 17:36		04.21.2020 17:56		04.21.2020 18:17		04.21.2020 18:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2
Diesel Range Organics (DRO)		<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2
Total TPH		<50.3	50.3	<49.9	49.9	<49.8	49.8	<49.9	49.9	<50.3	50.3	<50.2	50.2

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 659405

Tetra Tech- Midland, Midland, TX

Project Name: Audacious - Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Tue 04.21.2020 15:30
Report Date: 04.22.2020 14:19
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	659405-013		659405-014			
	Field Id:	W3'SW		S3'SW			
	Depth:						
	Matrix:	SOIL		SOIL			
	Sampled:	04.21.2020 00:00		04.21.2020 00:00			
BTEX by EPA 8021B	***Extracted:***	04.21.2020 18:00		04.21.2020 18:00			
	Analyzed:	04.21.2020 23:58		04.22.2020 00:19			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00199	0.00199		
Toluene		<0.00200	0.00200	<0.00199	0.00199		
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199		
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398		
o-Xylene		<0.00200	0.00200	<0.00199	0.00199		
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199		
Total BTEX		<0.00200	0.00200	<0.00199	0.00199		
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.21.2020 17:00		04.21.2020 17:00			
	Analyzed:	04.21.2020 18:53		04.21.2020 18:58			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		<10.0	10.0	<10.0	10.0		
TPH By SW8015 Mod	***Extracted:***	04.21.2020 15:45		04.21.2020 15:45			
	Analyzed:	04.21.2020 18:58		04.21.2020 19:18			
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<49.9	49.9		
Diesel Range Organics (DRO)		<50.1	50.1	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<49.9	49.9		
Total TPH		<50.1	50.1	<49.9	49.9		

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Jessica Kramer
Project Manager

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

Form 2 - Surrogate Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Orders: 659405 **Project ID:** 212C-MD-02133

Lab Batch #: 3123729 **Sample:** 659405-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 16:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.5	115	70-135	
o-Terphenyl	62.1	49.8	125	70-135	

Lab Batch #: 3123729 **Sample:** 659405-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 17:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.7	107	70-135	
o-Terphenyl	58.3	49.9	117	70-135	

Lab Batch #: 3123729 **Sample:** 659405-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 17:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.5	115	70-135	
o-Terphenyl	62.7	49.8	126	70-135	

Lab Batch #: 3123744 **Sample:** 659405-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 17:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.7	104	70-135	
o-Terphenyl	57.4	49.9	115	70-135	

Lab Batch #: 3123729 **Sample:** 659405-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 17:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.8	112	70-135	
o-Terphenyl	62.2	49.9	125	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Orders: 659405 **Project ID:** 212C-MD-02133

Lab Batch #: 3123744 **Sample:** 659405-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 18:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	56.3	50.0	113	70-135	

Lab Batch #: 3123729 **Sample:** 659405-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 18:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	101	110	70-135	
o-Terphenyl	59.6	50.3	118	70-135	

Lab Batch #: 3123744 **Sample:** 659405-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 18:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.8	103	70-135	
o-Terphenyl	56.3	49.9	113	70-135	

Lab Batch #: 3123729 **Sample:** 659405-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 18:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	57.8	50.2	115	70-135	

Lab Batch #: 3123744 **Sample:** 659405-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 18:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.9	100	100	70-135	
o-Terphenyl	54.2	50.1	108	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Orders: 659405 **Project ID:** 212C-MD-02133

Lab Batch #: 3123729 **Sample:** 659405-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 18:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	57.7	50.1	115	70-135	

Lab Batch #: 3123744 **Sample:** 659405-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 19:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.4	100	99	70-135	
o-Terphenyl	54.4	50.1	109	70-135	

Lab Batch #: 3123729 **Sample:** 659405-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 19:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.7	105	70-135	
o-Terphenyl	54.8	49.9	110	70-135	

Lab Batch #: 3123744 **Sample:** 659405-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 19:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.8	101	98	70-135	
o-Terphenyl	54.2	50.3	108	70-135	

Lab Batch #: 3123729 **Sample:** 7701764-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.21.2020 14:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	100	107	70-135	
o-Terphenyl	56.3	50.0	113	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Orders: 659405 **Project ID:** 212C-MD-02133

Lab Batch #: 3123744 **Sample:** 7701768-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.21.2020 14:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

Lab Batch #: 3123729 **Sample:** 7701764-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.21.2020 14:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	60.8	50.0	122	70-135	

Lab Batch #: 3123744 **Sample:** 7701768-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.21.2020 14:57

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	56.7	50.0	113	70-135	

Lab Batch #: 3123729 **Sample:** 7701764-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.21.2020 15:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	59.2	50.0	118	70-135	

Lab Batch #: 3123744 **Sample:** 7701768-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.21.2020 15:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	56.5	50.0	113	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Orders: 659405 **Project ID:** 212C-MD-02133

Lab Batch #: 3123744 **Sample:** 659295-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 16:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	61.3	50.2	122	70-135	

Lab Batch #: 3123729 **Sample:** 659405-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 16:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.5	106	70-135	
o-Terphenyl	52.2	49.8	105	70-135	

Lab Batch #: 3123744 **Sample:** 659295-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 16:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	62.6	50.1	125	70-135	

Lab Batch #: 3123729 **Sample:** 659405-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.21.2020 16:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	99.5	128	70-135	
o-Terphenyl	65.3	49.8	131	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Order #: 659405 **Project ID:** 212C-MD-02133

Analyst: DTH **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.21.2020

Lab Batch ID: 3123729 **Sample:** 7701764-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	929	93	1000	916	92	1	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	1000	1010	101	1	70-135	35	

Analyst: DTH **Date Prepared:** 04.21.2020 **Date Analyzed:** 04.21.2020

Lab Batch ID: 3123744 **Sample:** 7701768-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	853	85	1000	862	86	1	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	953	95	1000	964	96	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Audacious - Fearless Layflat Release

Work Order # : 659405 **Project ID:** 212C-MD-02133

Lab Batch ID: 3123729 **QC- Sample ID:** 659405-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.21.2020 **Date Prepared:** 04.21.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	960	96	995	1020	103	6	70-135	35	
Diesel Range Organics (DRO)	<49.8	995	891	90	995	1150	116	25	70-135	35	

Lab Batch ID: 3123744 **QC- Sample ID:** 659295-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.21.2020 **Date Prepared:** 04.21.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	919	92	1000	942	94	2	70-135	35	
Diesel Range Organics (DRO)	<50.2	1000	1040	104	1000	1070	107	3	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Analysis Request of Chain of Custody Record

159405

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike carmona

Project Name: Audacious - Fearless Lay flat Release

Project Location (county, state): Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Lgundy

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2019 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# 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
	BH 195 4.5' bgb	4/21			X			X		1	N	X		X												X			
	BH 196																												
	BH 197																												
	BH 198																												
	BH 199																												
	BH 200																												
	BH 201																												
	BH 202																												
	BH 203																												
	BH 204																												

Relinquished by: Date: 4/21/20 Time: 15:30
Received by: Date: 4/21/20 Time: 15:30

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

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

LAB USE ONLY
Sample Temperature: 3.0

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

659405

Page 2 of 2

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious - Fearless Layflat Release

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Laganda

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	N & SW	4/21			X			X		1	N
	W 10' SW	4/21			X			X		1	N
	W 3' SW	4/21			X			X		1	N
	S 3' SW	4/21			X			X		1	N

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	Sulfate TDS	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	X	X													X								
	X	X													X								
	X	X													X								
	X	X													X								
	X	X													X								

Relinquished by: Date: 4/21/20 Time: 15:30

Received by: Date: 4/21/20 Time: 15:30

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 3.0

REMARKS:

- [ ] STANDARD
- [x] 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

Analytical Report 659768

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Audacious- Fearless Layflat Release

212C-MD-02133

04.27.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

04.27.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **659768**
Audacious- Fearless Layflat Release
Project Address: Lea, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659768. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 659768 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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 659768

Tetra Tech- Midland, Midland, TX

Audacious- Fearless Layflat Release

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH 205 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-001
BH 206 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-002
BH 207 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-003
BH 208 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-004
BH 209 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-005
BH 210 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-006
BH 211 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-007
BH 212 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-008
BH 213 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-009
BH 214 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-010
BH 215 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-011
BH 216 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-012
BH 217 4.5' BEB	S	04.24.2020 00:00	4.5 ft	659768-013
W11 SW	S	04.24.2020 00:00	ft	659768-014
W12 SW	S	04.24.2020 00:00	ft	659768-015
W13 SW	S	04.24.2020 00:00	ft	659768-016
W14 SW	S	04.24.2020 00:00	ft	659768-017
N8 SW	S	04.24.2020 00:00	ft	659768-018

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Audacious- Fearless Layflat Release

Project ID:	*212C-MD-02133*	Report Date:	*04.27.2020*
Work Order Number(s):	*659768*	Date Received:	*04.24.2020*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 659768

Tetra Tech- Midland, Midland, TX

Project Name: Audacious- Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.24.2020 12:57
Report Date: 04.27.2020 11:56
Project Manager: Jessica Kramer

Analysis Requested		659768-001		659768-002		659768-003		659768-004		659768-005		659768-006	
	Field Id:	BH 205 4.5' BEB		BH 206 4.5' BEB		BH 207 4.5' BEB		BH 208 4.5' BEB		BH 209 4.5' BEB		BH 210 4.5' BEB	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01	
	Analyzed:	04.25.2020 03:10		04.25.2020 03:32		04.25.2020 03:53		04.25.2020 04:14		04.25.2020 04:36		04.25.2020 04:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00398	0.00398	<0.00403	0.00403	<0.00402	0.00402	<0.00399	0.00399
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09	
	Analyzed:	04.24.2020 14:57		04.24.2020 15:13		04.24.2020 15:19		04.24.2020 15:24		04.24.2020 15:30		04.24.2020 15:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<9.98	9.98	97.9	9.98	198	9.92	38.1	10.0	251	10.1	15.5	9.92
TPH By SW8015 Mod	***Extracted:***	04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30	
	Analyzed:	04.24.2020 15:04		04.24.2020 16:05		04.24.2020 16:25		04.24.2020 16:46		04.24.2020 17:07		04.24.2020 17:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0
Total TPH		<49.8	49.8	<49.8	49.8	<50.2	50.2	<50.2	50.2	<50.3	50.3	<50.0	50.0

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

Jessica Kramer
Project Manager

Certificate of Analysis Summary 659768

Tetra Tech- Midland, Midland, TX

Project Name: Audacious- Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.24.2020 12:57
Report Date: 04.27.2020 11:56
Project Manager: Jessica Kramer

Analysis Requested		659768-007		659768-008		659768-009		659768-010		659768-011		659768-012	
	Lab Id:	659768-007		659768-008		659768-009		659768-010		659768-011		659768-012	
	Field Id:	BH 211 4.5' BEB		BH 212 4.5' BEB		BH 213 4.5' BEB		BH 214 4.5' BEB		BH 215 4.5' BEB		BH 216 4.5' BEB	
	Depth:	4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft		4.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01	
	Analyzed:	04.25.2020 05:19		04.25.2020 05:40		04.25.2020 06:01		04.25.2020 06:23		04.25.2020 07:27		04.25.2020 07:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00401	0.00401	<0.00402	0.00402	<0.00398	0.00398	<0.00401	0.00401	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09	
	Analyzed:	04.24.2020 15:52		04.24.2020 15:57		04.24.2020 16:03		04.24.2020 16:08		04.24.2020 16:14		04.24.2020 16:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		19.3	10.0	303	10.1	455	9.92	261	9.92	45.4	9.96	19.4	10.0
TPH By SW8015 Mod	***Extracted:***	04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30	
	Analyzed:	04.24.2020 17:47		04.24.2020 18:07		04.24.2020 18:28		04.24.2020 18:48		04.24.2020 19:29		04.24.2020 19:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.2	50.2	<50.1	50.1	<50.0	50.0
Diesel Range Organics (DRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.2	50.2	<50.1	50.1	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.2	50.2	<50.1	50.1	<50.0	50.0
Total TPH		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.2	50.2	<50.1	50.1	<50.0	50.0

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Jessica Kramer
Project Manager

Certificate of Analysis Summary 659768

Tetra Tech- Midland, Midland, TX

Project Name: Audacious- Fearless Layflat Release

Project Id: 212C-MD-02133
Contact: Mike Carmona
Project Location: Lea, NM

Date Received in Lab: Fri 04.24.2020 12:57
Report Date: 04.27.2020 11:56
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	659768-013		659768-014		659768-015		659768-016		659768-017		659768-018	
	Field Id:	BH 217 4.5' BEB		W11 SW		W12 SW		W13 SW		W14 SW		N8 SW	
	Depth:	4.5- ft											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00		04.24.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01		04.24.2020 15:01	
	Analyzed:	04.25.2020 08:10		04.25.2020 08:31		04.25.2020 08:53		04.25.2020 09:14		04.25.2020 09:35		04.25.2020 09:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00399	0.00399	<0.00401	0.00401	<0.00399	0.00399	<0.00399	0.00399	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200
Inorganic Anions by EPA 300/300.1	***Extracted:***	04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09		04.24.2020 14:09	
	Analyzed:	04.24.2020 16:36		04.24.2020 16:52		04.24.2020 16:57		04.24.2020 17:03		04.24.2020 17:08		04.24.2020 17:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<9.92	9.92	<9.90	9.90	26.3	9.88	<9.98	9.98	<9.92	9.92	125	9.92
TPH By SW8015 Mod	***Extracted:***	04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30		04.24.2020 14:30	
	Analyzed:	04.24.2020 20:09		04.24.2020 20:30		04.24.2020 20:50		04.24.2020 21:10		04.24.2020 21:30		04.24.2020 21:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.0	50.0	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.0	50.0	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.0	50.0	<50.0	50.0	<50.0	50.0
Total TPH		<50.2	50.2	<49.9	49.9	<50.1	50.1	<50.0	50.0	<50.0	50.0	<50.0	50.0

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Jessica Kramer
Project Manager

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

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124192 **Sample:** 659768-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 15:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	99.6	122	70-135	
o-Terphenyl	65.2	49.8	131	70-135	

Lab Batch #: 3124192 **Sample:** 659768-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 16:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	99.5	123	70-135	
o-Terphenyl	66.4	49.8	133	70-135	

Lab Batch #: 3124192 **Sample:** 659768-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 16:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	61.8	50.2	123	70-135	

Lab Batch #: 3124192 **Sample:** 659768-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 16:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	62.6	50.2	125	70-135	

Lab Batch #: 3124192 **Sample:** 659768-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 17:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	122	101	121	70-135	
o-Terphenyl	64.0	50.3	127	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124192 **Sample:** 659768-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 17:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	100	123	70-135	
o-Terphenyl	65.7	50.0	131	70-135	

Lab Batch #: 3124192 **Sample:** 659768-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 17:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	65.2	50.2	130	70-135	

Lab Batch #: 3124192 **Sample:** 659768-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 18:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.9	99.8	100	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3124192 **Sample:** 659768-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 18:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	55.6	50.1	111	70-135	

Lab Batch #: 3124192 **Sample:** 659768-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 18:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	100	102	70-135	
o-Terphenyl	54.1	50.2	108	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124192 **Sample:** 659768-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 19:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	53.2	50.1	106	70-135	

Lab Batch #: 3124192 **Sample:** 659768-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 19:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	100	100	70-135	
o-Terphenyl	51.9	50.0	104	70-135	

Lab Batch #: 3124192 **Sample:** 659768-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 20:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	52.7	50.2	105	70-135	

Lab Batch #: 3124192 **Sample:** 659768-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 20:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.8	102	70-135	
o-Terphenyl	54.0	49.9	108	70-135	

Lab Batch #: 3124192 **Sample:** 659768-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 20:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.9	100	98	70-135	
o-Terphenyl	51.5	50.1	103	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124192 **Sample:** 659768-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 21:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.9	101	70-135	
o-Terphenyl	53.5	50.0	107	70-135	

Lab Batch #: 3124192 **Sample:** 659768-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 21:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.8	99.9	100	70-135	
o-Terphenyl	52.4	50.0	105	70-135	

Lab Batch #: 3124192 **Sample:** 659768-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 21:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.3	99.9	99	70-135	
o-Terphenyl	51.1	50.0	102	70-135	

Lab Batch #: 3124156 **Sample:** 659768-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 03:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	70-130	
4-Bromofluorobenzene	0.0317	0.0300	106	70-130	

Lab Batch #: 3124156 **Sample:** 659768-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 03:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124156 **Sample:** 659768-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 03:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	70-130	
4-Bromofluorobenzene	0.0313	0.0300	104	70-130	

Lab Batch #: 3124156 **Sample:** 659768-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 04:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	70-130	
4-Bromofluorobenzene	0.0314	0.0300	105	70-130	

Lab Batch #: 3124156 **Sample:** 659768-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 04:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	70-130	
4-Bromofluorobenzene	0.0314	0.0300	105	70-130	

Lab Batch #: 3124156 **Sample:** 659768-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 04:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0356	0.0300	119	70-130	
4-Bromofluorobenzene	0.0319	0.0300	106	70-130	

Lab Batch #: 3124156 **Sample:** 659768-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 05:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0354	0.0300	118	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124156 **Sample:** 659768-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 05:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0345	0.0300	115	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

Lab Batch #: 3124156 **Sample:** 659768-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 06:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	70-130	
4-Bromofluorobenzene	0.0312	0.0300	104	70-130	

Lab Batch #: 3124156 **Sample:** 659768-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 06:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0320	0.0300	107	70-130	

Lab Batch #: 3124156 **Sample:** 659768-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 07:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	70-130	
4-Bromofluorobenzene	0.0317	0.0300	106	70-130	

Lab Batch #: 3124156 **Sample:** 659768-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 07:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0352	0.0300	117	70-130	
4-Bromofluorobenzene	0.0323	0.0300	108	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124156 **Sample:** 659768-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 08:10

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	70-130	
4-Bromofluorobenzene	0.0322	0.0300	107	70-130	

Lab Batch #: 3124156 **Sample:** 659768-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 08:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0348	0.0300	116	70-130	
4-Bromofluorobenzene	0.0326	0.0300	109	70-130	

Lab Batch #: 3124156 **Sample:** 659768-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 08:53

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0341	0.0300	114	70-130	
4-Bromofluorobenzene	0.0317	0.0300	106	70-130	

Lab Batch #: 3124156 **Sample:** 659768-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 09:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0344	0.0300	115	70-130	
4-Bromofluorobenzene	0.0314	0.0300	105	70-130	

Lab Batch #: 3124156 **Sample:** 659768-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 09:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0348	0.0300	116	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124156 **Sample:** 659768-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 09:57

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0353	0.0300	118	70-130	
4-Bromofluorobenzene	0.0326	0.0300	109	70-130	

Lab Batch #: 3124192 **Sample:** 7702063-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.24.2020 13:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	59.3	50.0	119	70-135	

Lab Batch #: 3124156 **Sample:** 7702027-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.25.2020 01:02

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0349	0.0300	116	70-130	
4-Bromofluorobenzene	0.0319	0.0300	106	70-130	

Lab Batch #: 3124192 **Sample:** 7702063-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.24.2020 14:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	133	100	133	70-135	
o-Terphenyl	63.7	50.0	127	70-135	

Lab Batch #: 3124156 **Sample:** 7702027-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.25.2020 01:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124192 **Sample:** 7702063-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.24.2020 14:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	65.3	50.0	131	70-135	

Lab Batch #: 3124156 **Sample:** 7702027-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 04.25.2020 01:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

Lab Batch #: 3124192 **Sample:** 659768-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 15:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	131	100	131	70-135	
o-Terphenyl	62.3	50.2	124	70-135	

Lab Batch #: 3124156 **Sample:** 659768-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 02:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0332	0.0300	111	70-130	
4-Bromofluorobenzene	0.0301	0.0300	100	70-130	

Lab Batch #: 3124192 **Sample:** 659768-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.24.2020 15:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	134	99.9	134	70-135	
o-Terphenyl	64.5	50.0	129	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Orders: 659768 **Project ID:** 212C-MD-02133

Lab Batch #: 3124156 **Sample:** 659768-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 04.25.2020 02:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	70-130	
4-Bromofluorobenzene	0.0299	0.0300	100	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

BS / BSD Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Order #: 659768 **Project ID:** 212C-MD-02133

Analyst: MAB **Date Prepared:** 04.24.2020 **Date Analyzed:** 04.25.2020

Lab Batch ID: 3124156 **Sample:** 7702027-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.124	124	0.100	0.127	127	2	70-130	35	
Toluene	<0.00200	0.100	0.109	109	0.100	0.111	111	2	70-130	35	
Ethylbenzene	<0.00200	0.100	0.101	101	0.100	0.103	103	2	71-129	35	
m,p-Xylenes	<0.00400	0.200	0.197	99	0.200	0.199	100	1	70-135	35	
o-Xylene	<0.00200	0.100	0.102	102	0.100	0.103	103	1	71-133	35	

Analyst: MAB **Date Prepared:** 04.24.2020 **Date Analyzed:** 04.24.2020

Lab Batch ID: 3124158 **Sample:** 7702030-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	253	101	250	253	101	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Order #: 659768 **Project ID:** 212C-MD-02133

Analyst: DTH **Date Prepared:** 04.24.2020 **Date Analyzed:** 04.24.2020

Lab Batch ID: 3124192 **Sample:** 7702063-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	938	94	1000	926	93	1	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1000	1020	102	3	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Order # : 659768 **Project ID:** 212C-MD-02133

Lab Batch ID: 3124156 **QC- Sample ID:** 659768-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.25.2020 **Date Prepared:** 04.24.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.0998	0.110	110	0.0998	0.125	125	13	70-130	35	
Toluene	<0.00200	0.0998	0.0965	97	0.0998	0.110	110	13	70-130	35	
Ethylbenzene	<0.00200	0.0998	0.0926	93	0.0998	0.103	103	11	71-129	35	
m,p-Xylenes	<0.00399	0.200	0.180	90	0.200	0.198	99	10	70-135	35	
o-Xylene	<0.00200	0.0998	0.0930	93	0.0998	0.102	102	9	71-133	35	

Lab Batch ID: 3124158 **QC- Sample ID:** 659768-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.24.2020 **Date Prepared:** 04.24.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	200	203	102	200	205	103	1	90-110	20	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: Audacious- Fearless Layflat Release

Work Order # : 659768 **Project ID:** 212C-MD-02133

Lab Batch ID: 3124158 **QC- Sample ID:** 659768-011 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.24.2020 **Date Prepared:** 04.24.2020 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	45.4	200	252	103	200	252	103	0	90-110	20	

Lab Batch ID: 3124192 **QC- Sample ID:** 659768-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 04.24.2020 **Date Prepared:** 04.24.2020 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1020	102	999	961	96	6	70-135	35	
Diesel Range Organics (DRO)	<50.2	1000	1140	114	999	1070	107	6	70-135	35	

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

659768

Page 1 of 2

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Mike Carmona

Project Name: Audacious – Fearless Layflat Release

Project Location: (county, state) Lea, NM

Project #: 212C-MD-02133

Invoice to: EOG – James Kennedy

Receiving Laboratory: Xenco

Sampler Signature: Tony Lyalen

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2019 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# 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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	BH 205 4.5' bgs	4/24			X			X		1	N	X		X												X									
	BH 206	"			X			X		1	N	X		X												X									
	BH 207	"			X			X		1	N	X		X												X									
	BH 208	"			X			X		1	N	X		X												X									
	BH 209	"			X			X		1	N	X		X												X									
	BH 210	"			X			X		1	N	X		X												X									
	BH 211	"			X			X		1	N	X		X												X									
	BH 212	"			X			X		1	N	X		X												X									
	BH 213	"			X			X		1	N	X		X												X									
	BH 214	"			X			X		1	N	X		X												X									

Relinquished by: Date: 4/24/20 Time: 12:55 — Received by: Date: 4/24/20 Time: 12:55

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

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

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature 2.2

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 #: _____

659768

Page 2 of 2

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: | Site Manager:

Project Name:

Project Location: (county, state) | Project #:

Invoice to:

Receiving Laboratory: | Sampler Signature:

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: ~~2019~~ 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	# CONTAINERS	FILTERED (Y/N)
	BH 215 4.5' bgs	4/24			X			X		1	N
	BH 216	"			"			"		"	"
	BH 217	"			"			"		"	"
	W11 SW	"			"			"		"	"
	W12 SW	"			"			"		"	"
	W13 SW	"			"			"		"	"
	W14 SW	"			"			"		"	"
	N8 SW	"			"			"		"	"

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
	X		X												X							

Relinquished by: Date: 4/24/20 Time: 12:55 | Received by: Date: 4/24/20 Time: 12:55

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

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

LAB USE ONLY

Sample Temperature: 2.2

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

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 289027

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 289027
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC. Release resolved.	3/11/2024