

Incident ID	NAPP2101345491
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

OCD Only

Received by: Chad Hensley Date: 09/21/2021

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

Closure Approved by: Chad Hensley Date: 09/21/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced

SITE INFORMATION

Report Type: Closure Report NAPP2101345491

General Site Information:

Site:	Bear Booster					
Company:	EOG Resources					
Section, Township and Range	Unit M	Sec. 36	T 25S	R 33E		
Lease Number:						
County:	Lea County					
GPS:	32.080189			-103.53084		
Surface Owner:	State					
Mineral Owner:						
Directions:	From the GPS coordinates 32.080405°, -103.523434° along Battle Axe Road, follow the lease road to the west for 0.44 miles. Turn right onto pad to arrive at location.					

Release Data:

Date Released:	12/22/2020
Type Release:	Produced Water
Source of Contamination:	Transfer Pump
Fluid Released:	315 bbl water
Fluids Recovered:	300 bbl water

Official Communication:

Name:	Todd Wells		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr.		901 W. Wall St.
			Ste 100
City:	Midland, Texas, 79706		Midland, Texas, 79701
Phone number:	(432) 686-3613		(432) 682-4559
Fax:			
Email:	Todd_Wells@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	176.81' below ground surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

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



August 23, 2021

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

**Re: Closure Report
EOG Resources
Bear Booster Release
NAPP2101345491
Unit M, Section 36, Township 25 South, Range 33 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, Bear Booster. The release footprint is located in Public Land Survey System (PLSS) Unit Letter M, Section 36, Township 25 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are 32.18224°, -103.612879°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on December 22, 2020 and released approximately 315 barrels of produced water, due to a malfunctioning transfer pump. Approximately 300 barrels of the released fluids were recovered. The release occurred on a pad, and impacted areas measuring approximately 295' x 145', staying confined to the pad. The C-141 is shown in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential. The nearest well is listed in the USGS National Water Information Database website in Section 6, approximately 1.48 miles West of the Site, and has a reported depth to groundwater of 176.81 ft bgs.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter (approximately ½-mile) radius of the Site. However, there are three (3) water wells within 2,400-meters (approximately 1.5-miles) radius of the Site. The average depth to groundwater is 150 ft bgs. The site characterization data is included in Appendix B.

Tetra Tech

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

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

**TETRA TECH**

REGULATORY FRAMEWORK

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

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT AND SAMPLING RESULTS

Horizontal Samples

On December 29, 2020, Tetra Tech personnel were onsite on behalf of EOG to evaluate and conduct soil sampling on the release area. A total of eight (8) horizontal samples (H-1 through H-8) were installed along the perimeter of the release extent to a depth of 0.5 feet (ft.) bgs to achieve horizontal delineation. Samples were submitted to Eurofins Xenco, LLC (Eurofins) in Carlsbad, NM to be analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. Sample locations are shown on Figure 3.

Referring to Table 1, all samples analyzed (H-1 through H-8) were below the Site RRALs for all analyzed constituents.

Trenches

On December 29, 2020, Tetra Tech returned to the Site to conduct additional soil sampling within the release footprint. Soils were field screened for chlorides using an ExStik to determine sampling depths. A total of ten (10) trenches (T-1 through T-10) were installed to total depths ranging from surface to 4 ft. bgs. Samples were submitted to Eurofins Xenco, LLC (Eurofins) in Carlsbad, NM to be analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. Sample locations are shown on Figure 3

Referring to Table 1, trenches (Trench-1 through Trench-5, Trench-7, and Trench-10) exceeded the Site RRALs for chloride (600 mg/kg) at depths ranging from surface to 2.0' bgs. No submitted samples reported benzene, BTEX, or TPH concentrations above laboratory reporting

**TETRA TECH**

limits. Additionally, vertical delineation was found in all trenches, depths ranging from surface to 3.0 bgs.

REMEDIATION ACTIVITIES

Based on the results of the soil assessment, Tetra Tech personnel were onsite January 4, 2021 through January 12, 2021 to supervise the remediation activities as well as to collect confirmation samples. The impacted areas were excavated to total depths ranging from 1.0'-2.0' bgs, as shown on Figure 4 and Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of eighty-four (84) bottom hole samples (BH-1 through BH-84) and twenty-one (21) sidewall samples (SW-1 through SW-21) were collected to ensure proper removal of the impacted soils. The samples were submitted to Eurofins in Carlsbad, NM to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 4.

Referring to Table 2, all final confirmation samples collected showed benzene, total BTEX, and TPH concentrations below the laboratory reporting limits. Additionally, all final samples, showed chloride concentrations below the 600 mg/kg threshold.

Approximately 869 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

CONCLUSION

Based on the laboratory results, remediation activities performed, and safety concerns of further excavation on elevated samples, 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) 687-8123.

Respectfully submitted,
TETRA TECH

Handwritten signature of Paula Tocora Alonso in black ink.

Paula Tocora Alonso
Environmental Engineer I

Handwritten signature of Brittany Long in black ink.

Brittany Long,
Project Manager

Handwritten signature of Clair Gonzales in blue ink.

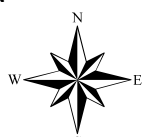
Clair Gonzales, P.G
Senior Project Manager

cc: James Kennedy – EOG
Todd Wells - EOG

Figures



 SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet



STATE LOCATOR MAP

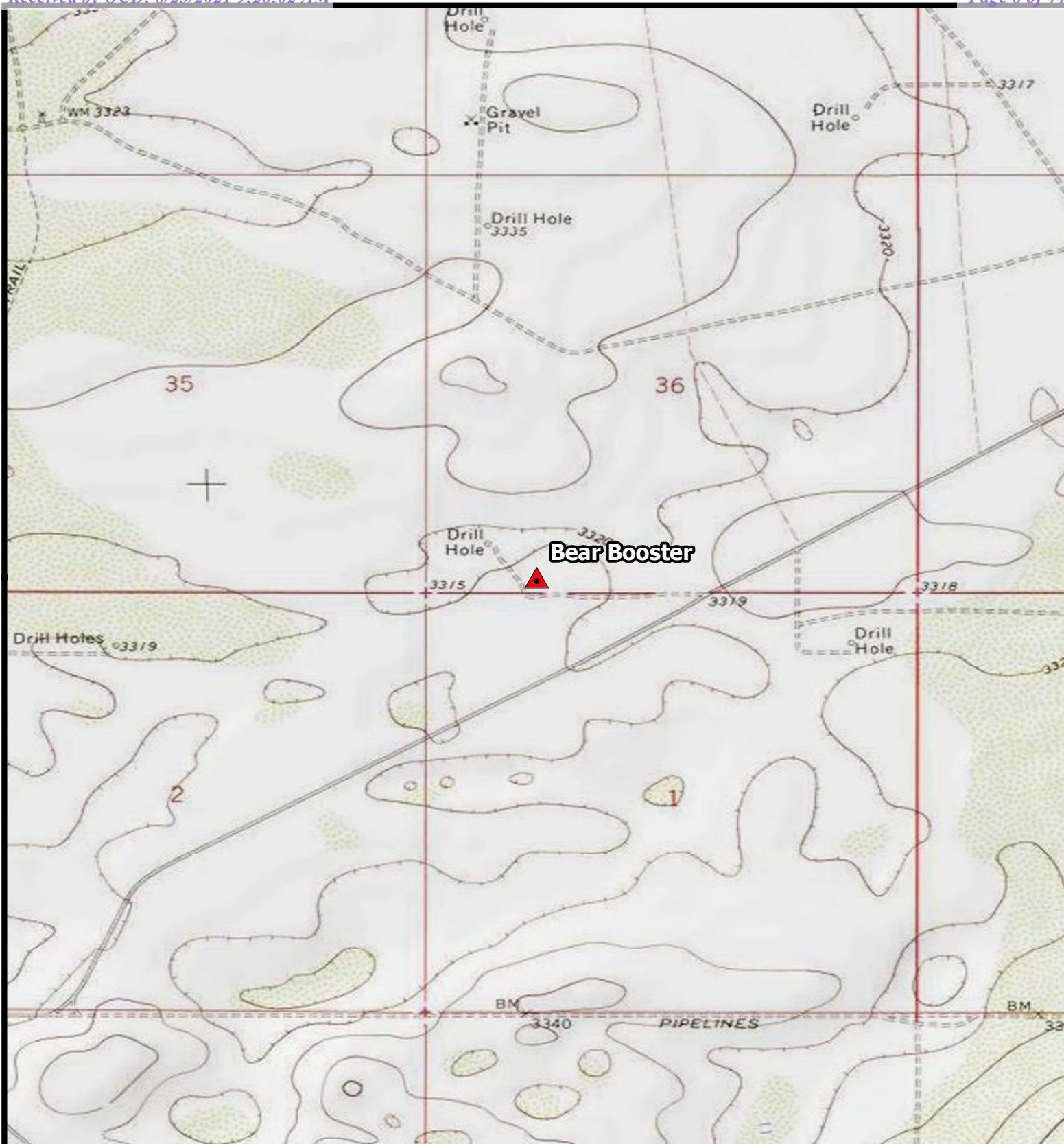
OVERVIEW MAP
BEAR BOOSTER

Property located at coordinates 32.08027°, -103.530642°
LEA COUNTY, NEW MEXICO

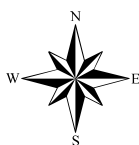


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Date: 01-14-2021
Drawn By: Ezequiel Moreno

FIGURE
1



SITE LOCATION



0 550 1,100 2,200

Approximate Scale in Feet

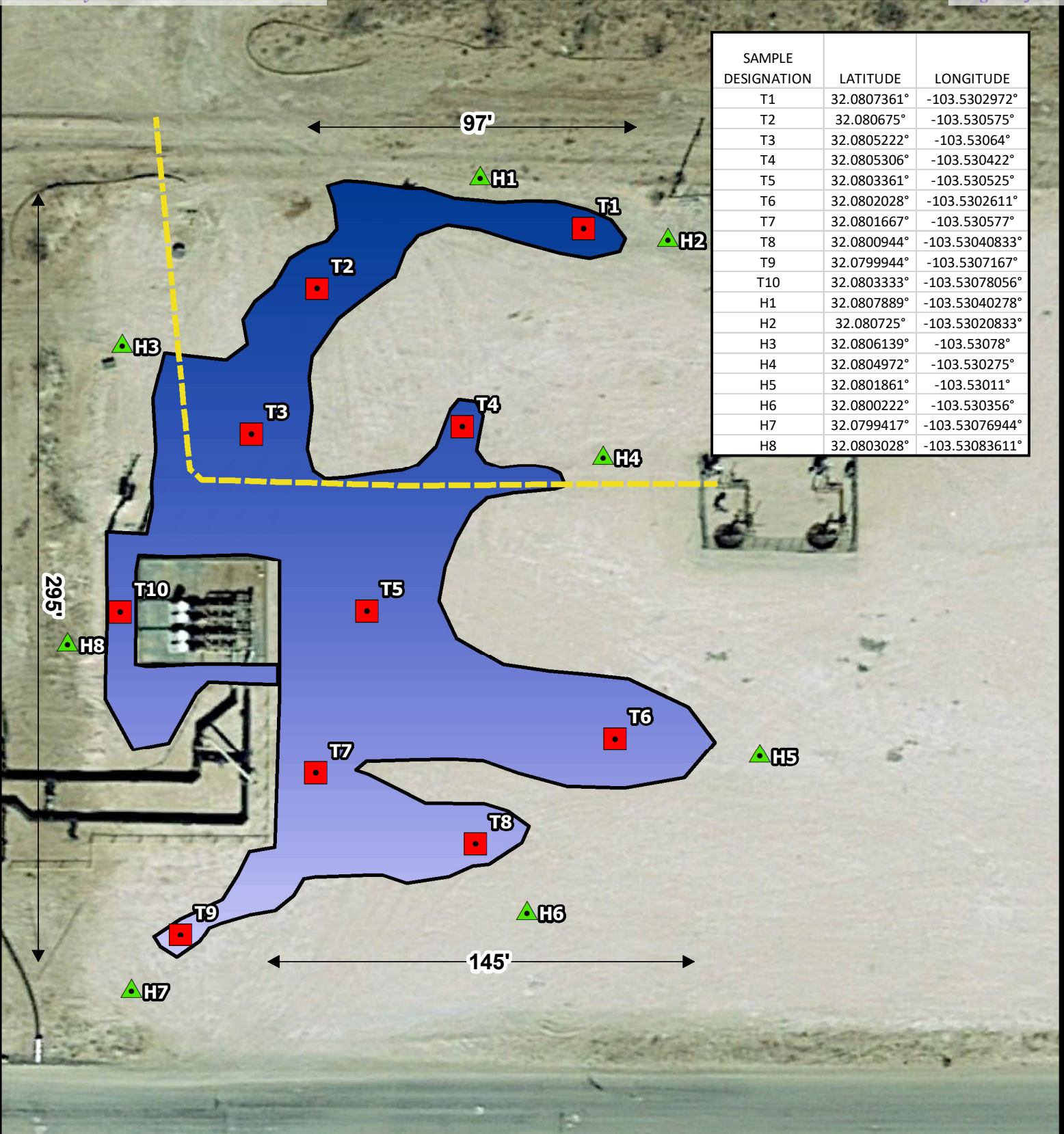
Service Layer Credits: Copyright: © 2013 National Geographic Society, I-cubed

TOPOGRAPHIC MAP
BEAR BOOSTERProperty located at coordinates 32.08027°, -103.530642°
LEA COUNTY, NEW MEXICO

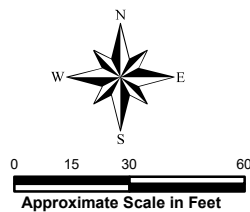
TETRA TECH
901 W Wall St Ste. 100,
Midland, TX 79701
(432) 682-4559

Project #: 212C-MD-02387
Date: 01-14-2021
Drawn By: Ezequiel Moreno

FIGURE
2



- TRENCH SAMPLE LOCATIONS
- ▲ HORIZONTAL SAMPLE LOCATIONS
- BURIED PIPELINE - GAS
- AFFECTED SPILL AREA



SPILL ASSESSMENT MAP BEAR BOOSTER

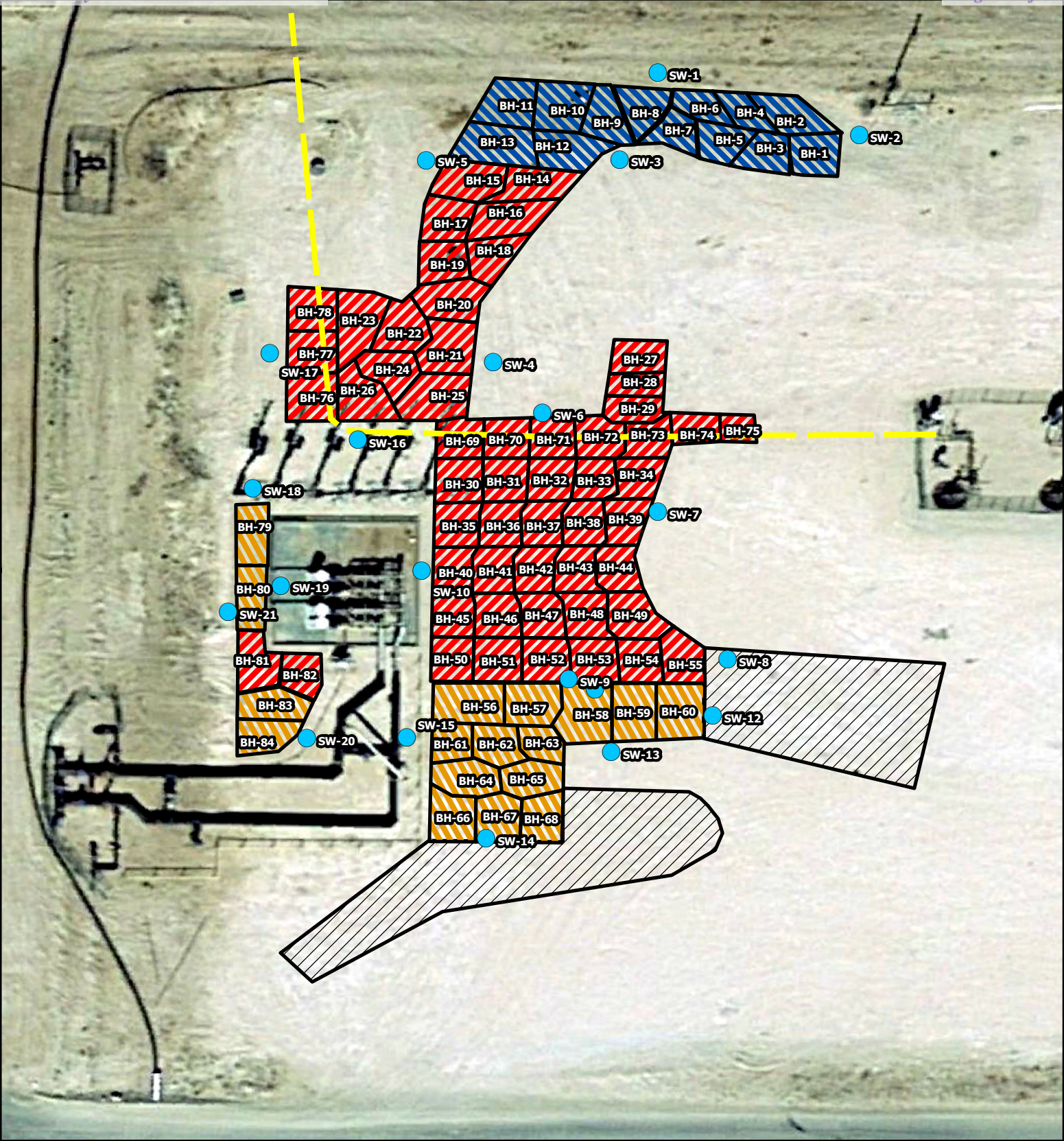
Property located at coordinates 32.08027°, -103.530642°
LEA COUNTY, NEW MEXICO



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

Project #: 212C-MD-02387
Date: 01-15-2021
Drawn By: Ezequiel Moreno

**FIGURE
3**

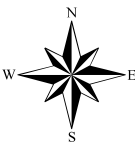


- <6" SCRAPE
- 1' EXCAVATION
- 1.5' EXCAVATION
- 2' EXCAVATION

SIDEWALL DESIGNATIONS

BURIED PIPELINE - GAS

BH BOTTOMHOLE SAMPLE LOCATIONS



0 15 30 60
Approximate Scale in Feet

EXCAVATION AREA & DEPTH MAP BEAR BOOSTER

Property located at coordinates 32.08027°, -103.530642°
LEA COUNTY, NEW MEXICO



Project #: 212C-MD-02387
Date: 01-15-2021
Drawn By: Ezequiel Moreno

FIGURE
4

Tables

Table 1
EOG
Bear Booster Release
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
Trench 1	12/29/2020	0-1	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4240
	"	1	X		<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1790
	"	2	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4400
	"	3	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	387
	"	4	X		<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.9
Trench 2	12/29/2020	0-1	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	935
	"	1	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	18.9
	"	2	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.6
	"	3	X		<50.4	<50.4	<50.4	<50.4	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	13.6
	"	4	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.6
Trench 3	12/29/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2970
	"	1	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2120
	"	2	X		<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.8
	"	3	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.96
Trench 4	12/29/2020	0-1	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1420
	"	1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.3
	"	2	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.7
	"	3	X		<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	32.7
Trench 5	12/29/2020	0-1	X		<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1790
	"	1	X		<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1320
	"	2	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	16.2
	"	3	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	18.5
	"	4	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	21.9
Trench 6	12/29/2020	0-1	X		<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.5
	"	1	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
	"	2	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.98

Table 1
EOG
Bear Booster Release
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
Trench 7	12/29/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2490
	"	1	X		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	23.7
	"	2	X		<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	28.7
	"	3	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	40.3
	"	4	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	32.1
Trench 8	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	343
	"	1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.94
	"	2	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
	"	3	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8
Trench 9	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2
	"	1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	62.9
	"	2	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
	"	3	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
	"	4	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9
Trench 10	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	757
	"	1	X		<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	43.6
	"	2	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	22.9
	"	3	X		<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	34.5
Horizontal-1	12/29/2020	0-1	X		<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.92
Horizontal-2	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.92
Horizontal-3	12/29/2020	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	16.4
Horizontal-4	12/29/2020	0-1	X		<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	12.5
Horizontal-5	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.0
Horizontal-6	12/29/2020	0-1	X		<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	10.0
Horizontal-7	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<9.94
Horizontal-8	12/29/2020	0-1	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	15.1

(-)



Not Analyzed
Exceeds Thresholds

Table 2
EOG Resources
Bear Booster
Lea County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-1	1/5/2021	2.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.94
BH-2	1/5/2021	2.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	13.1
BH-3	1/5/2021	2.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.90
BH-4	1/5/2021	2.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	17.1
BH-5	1/5/2021	2.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
BH-6	1/5/2021	2.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
BH-7	1/5/2021	2.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.1
BH-8	1/5/2021	2.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-9	1/5/2021	2.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.96
BH-10	1/5/2021	2.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	108
BH-11	1/5/2021	2.0'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	18.7
BH-12	1/5/2021	2.0'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.3
BH-13	1/5/2021	2.0'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.0
BH-14	1/5/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	16.1
BH-15	1/5/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.98
BH-16	1/5/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	13.1
BH-17	1/5/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.1
BH-18	1/5/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<10.0
BH-19	1/5/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	28.7
BH-20	1/5/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	29.4
BH-21	1/5/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<9.92
BH-22	1/5/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.3
BH-23	1/5/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	16.5
BH-24	1/5/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	39.1
BH-25	1/5/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	13.3
BH-26	1/5/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	28.6
BH-27	1/5/2021	1.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.4
BH-28	1/5/2021	1.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.3
BH-29	1/5/2021	1.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.2
BH-30	1/6/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	46.5
BH-31	1/6/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	42.3
BH-32	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	42.8
BH-33	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	138
BH-34	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	131
BH-35	1/6/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	32.4

Table 2
EOG Resources
Bear Booster
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-36	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	33.4
BH-37	1/6/2021	1.5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	38.6
BH-38	1/6/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	20.3
BH-39	1/6/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	18.6
BH-40	1/6/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	13.3
BH-41	1/6/2021	1.5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.5
BH-42	1/6/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	22.1
BH-43	1/6/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	24.6
BH-44	1/6/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.3
BH-45	1/6/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	51.6
BH-46	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	31.7
BH-47	1/6/2021	1.5'	X	-	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	38.6
BH-48	1/6/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	37.0
BH-49	1/6/2021	1.5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	43.4
BH-50	1/6/2021	1.5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	20.4
BH-51	1/6/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.9
BH-52	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	96.0
BH-53	1/6/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	98.4
BH-54	1/6/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.96
BH-55	1/6/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<9.92
BH-56	1/7/2021	1.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.5
BH-57	1/7/2021	1.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	17.9
BH-58	1/7/2021	1.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
BH-59	1/7/2021	1.0'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.94
BH-60	1/7/2021	1.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<10.0
BH-61	1/7/2021	1.0'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	11.5
BH-62	1/7/2021	1.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.0
BH-63	1/7/2021	1.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.4
BH-64	1/7/2021	1.0'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.4
BH-65	1/7/2021	1.0'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	10.3
BH-66	1/7/2021	1.0'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.6
BH-67	1/7/2021	1.0'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	14.9
BH-68	1/7/2021	1.0'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	15.1
BH-69	1/8/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	251
BH-70	1/8/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	178
BH-71	1/8/2021	1.5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	12.6
BH-72	1/8/2021	1.5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.000286	<0.000286	<0.000286	<0.000286	<0.000286	12.6
BH-73	1/8/2021	1.5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	13.1

Table 2
EOG Resources
Bear Booster
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-74	1/8/2021	1.5'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	22.1
BH-75	1/8/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	14.0
BH-76	1/8/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.9
BH-77	1/8/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.96
BH-78	1/8/2021	1.5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.6
BH-79	1/12/2021	1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	31.5
BH-80	1/12/2021	1.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	24.1
BH-81	1/12/2021	1.5'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	201
BH-82	1/12/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	204
BH-83	1/12/2021	1.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.5
BH-84	1/12/2021	1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	13.7
SW-1	1/6/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	15.6
SW-2	1/6/2021	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	15.8
SW-3	1/6/2021	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<10.0
SW-4	1/6/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	20.4
SW-5	1/6/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<9.98
SW-6	1/6/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	78.4
SW-7	1/6/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	19.1
SW-8	1/6/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	16.0
SW-9	1/6/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	105
SW-10	1/6/2021	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.0
SW-11	1/8/2021	-	X	-	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.3
SW-12	1/8/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	12.2
SW-13	1/8/2021	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.7
SW-14	1/8/2021	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	72.5
SW-15	1/8/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	75.3
SW-16	1/8/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	12.3
SW-17	1/8/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	13.5
SW-18	1/12/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	31.3
SW-19	1/12/2021	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	77.3
SW-20	1/12/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00196	<0.00196	<0.00196	<0.00196	<0.00196	23.9
SW-21	1/12/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	12.7

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Not Analyzed

Photos

EOG Resources
Bear Booster
Lea County, New Mexico



TETRA TECH



View of Remediation Activities – View South



View of Remediation Activities – View East

EOG Resources
Bear Booster
Lea County, New Mexico



View of Remediation Activities – View Southeast



View of Remediation Activities – View North

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	NAPP2101345491
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.080277° Longitude -103.530642°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Bear Booster	Site Type SWD Pipeline
Date Release Discovered 12/22/20	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	36	25S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 315	Volume Recovered (bbls) 300
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The operator arrived on location and discovered produced water being released from the transfer pump at the Bear Booster SWD Pipeline. Approximately 315 bbls of produced water was released around the booster and on the pad with 300 bbls recovered.

Incident ID	NAPP2101345491
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? E-mail notification to District 1 Spills Inbox on 12/23/20.	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>1-13-21</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>1/19/2021</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B



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

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320419103302201

Minimum number of levels = 1

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

USGS 320419103302201 26S.34E.06.21414

Lea County, New Mexico
Latitude 32°04'37.9", Longitude 103°30'20.5" NAD83
Land-surface elevation 3,319.00 feet above NGVD29
The depth of the well is 360 feet below land surface.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1954-07-23		D	72019	141.95				U		U	A
1971-10-20		D	72019	128.43				U		U	A
1981-03-25		D	72019	129.43				U		U	A
1986-03-04		D	72019	125.88				U		U	A
1991-06-12		D	72019	126.82				U		U	A
2013-01-16	14:00 MST	m	72019	176.81				S	USGS	R	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02291		CUB	LE	1	1	2	06	26S	34E	640825	3550140*	2172	220	160	60
C_03441	POD1	C	LE	4	1	2	06	26S	34E	640971	3550039	2325	250		
C_02292	POD1	CUB	LE	4	1	2	06	26S	34E	640992	3549987	2351	200	140	60

Average Depth to Water: **150 feet**

Minimum Depth: **140 feet**

Maximum Depth: **160 feet**

Record Count: 3

UTM NAD83 Radius Search (in meters):

Easting (X): 638656.64

Northing (Y): 3550267.78

Radius: 2400

*UTM location was derived from PLSS - see Help

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

1/14/21 11:33 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

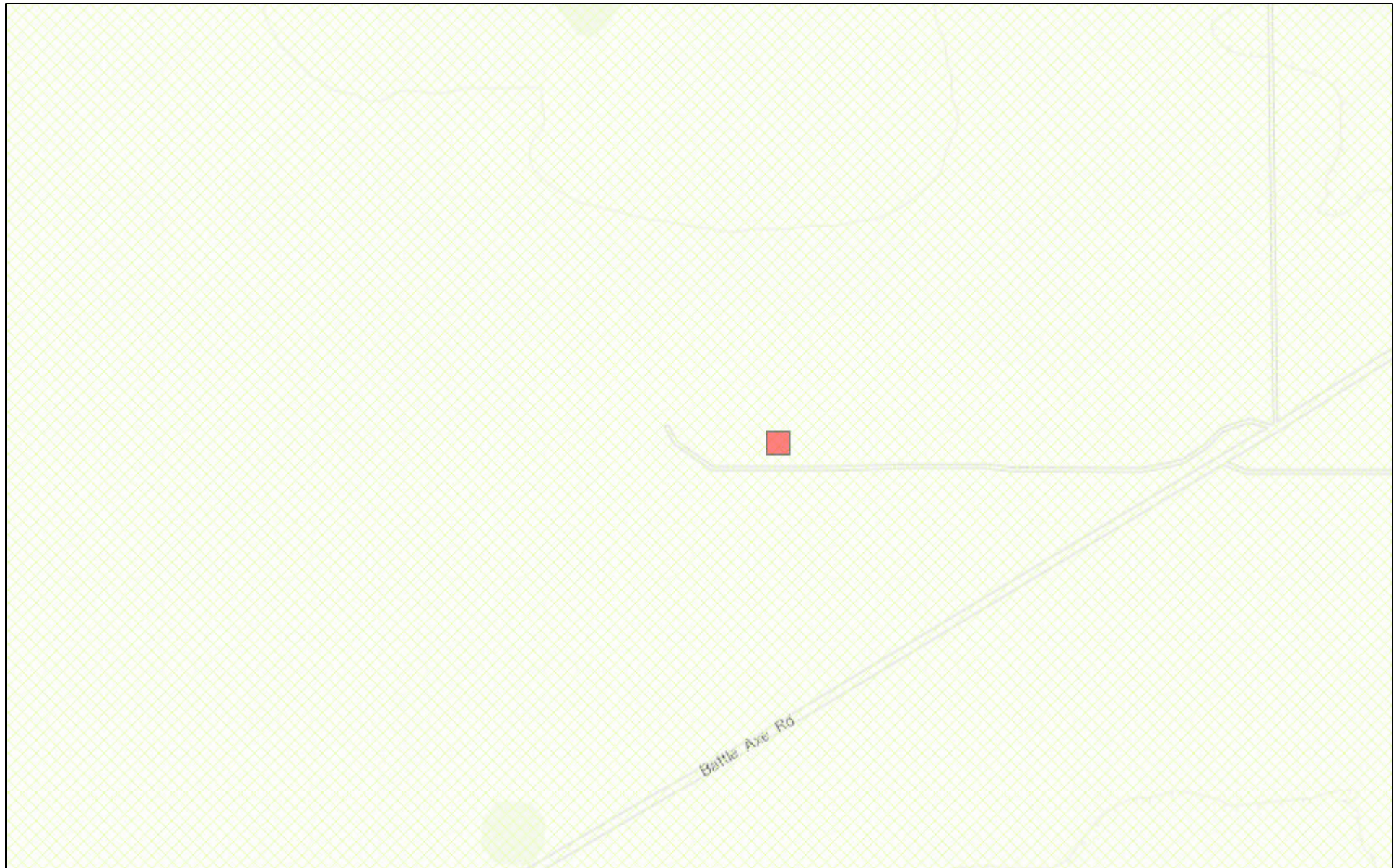
National Water Information System: Mapper

[Help](#) [Info](#)

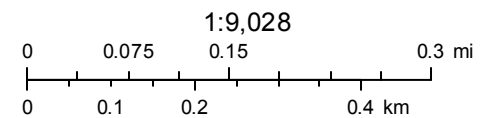


Site Information

New Mexico NFHL Data



January 4, 2021



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

Legend

-  EOG Bear Booster Release
-  High
-  Low
-  Medium

 **EOG Bear Booster Release**

Appendix C

Certificate of Analysis Summary 683037



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:57

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683037-001	683037-002	683037-003	683037-004	683037-005	683037-006
	<i>Field Id:</i>	H1-(0-6")	H2-(0-6")	H3-(0-6")	H4-(0-6")	H5-(0-6")	H6-(0-6")
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.30.2020 21:51	12.30.2020 22:20	12.30.2020 22:42	12.30.2020 23:05	12.30.2020 23:27	12.30.2020 23:50
	<i>Units/RL:</i>	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	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00
	<i>Analyzed:</i>	12.31.2020 15:08	12.31.2020 15:25	12.31.2020 15:31	12.31.2020 15:37	12.31.2020 15:43	12.31.2020 16:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<9.92 9.92	<9.92 9.92	16.4 10.1	12.5 9.98	13.0 9.98	10.0 9.90
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.30.2020 22:01	12.30.2020 22:21	12.30.2020 22:41	12.30.2020 23:01	12.30.2020 23:22	12.31.2020 00:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1
Diesel Range Organics (DRO)		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1
Total TPH		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.2 50.2	<50.0 50.0	<50.1 50.1

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 683037

Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

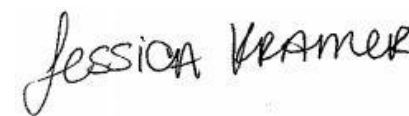
Report Date: 01.04.2021 16:57

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	683037-007	683037-008				
	Field Id:	H7-(0-6")	H8-(0-6")				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	12.29.2020 00:00	12.29.2020 00:00				
BTEX by EPA 8021B	Extracted:	12.30.2020 17:00	12.30.2020 17:00				
	Analyzed:	12.31.2020 00:12	12.31.2020 00:35				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00198 0.00198	<0.00198 0.00198				
Toluene		<0.00198 0.00198	<0.00198 0.00198				
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198				
m,p-Xylenes		<0.00397 0.00397	<0.00397 0.00397				
o-Xylene		<0.00198 0.00198	<0.00198 0.00198				
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198				
Total BTEX		<0.00198 0.00198	<0.00198 0.00198				
Inorganic Anions by EPA 300/300.1	Extracted:	12.31.2020 09:00	12.31.2020 09:00				
	Analyzed:	12.31.2020 16:07	12.31.2020 16:13				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		<9.94 9.94	15.1 9.98				
TPH By SW8015 Mod	Extracted:	12.30.2020 17:00	12.30.2020 17:00				
	Analyzed:	12.31.2020 00:22	12.31.2020 00:42				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0				
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0				
Total TPH		<50.0 50.0	<50.0 50.0				

BRL - Below Reporting Limit

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





Environment Testing
Xenco

Analytical Report 683037

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Bear Booster

212C-MD-02387

01.04.2021

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.04.2021

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **683037**

Bear Booster

Project Address: Lea County, 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 Eurofins Xenco, LLC Report Number(s) 683037. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683037 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 683037****Tetra Tech- Midland, Midland, TX**

Bear Booster

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
H1-(0-6")	S	12.29.2020 00:00		683037-001
H2-(0-6")	S	12.29.2020 00:00		683037-002
H3-(0-6")	S	12.29.2020 00:00		683037-003
H4-(0-6")	S	12.29.2020 00:00		683037-004
H5-(0-6")	S	12.29.2020 00:00		683037-005
H6-(0-6")	S	12.29.2020 00:00		683037-006
H7-(0-6")	S	12.29.2020 00:00		683037-007
H8-(0-6")	S	12.29.2020 00:00		683037-008



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Bear Booster

Project ID: 212C-MD-02387
Work Order Number(s): 683037

Report Date: 01.04.2021
Date Received: 12.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H1-(0-6")**

Matrix: Soil

Date Received: 12.30.2020 15:00

Lab Sample Id: 683037-001

Date Collected: 12.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:

Seq Number: 3146578

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92	mg/kg	12.31.2020 15:08	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:

Seq Number: 3146472

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.30.2020 22:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.30.2020 22:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.30.2020 22:01	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.30.2020 22:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	12.30.2020 22:01	
o-Terphenyl	84-15-1	108	%	70-135	12.30.2020 22:01	



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H1-(0-6")**
Lab Sample Id: 683037-001

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 21:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 21:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 21:51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.2020 21:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 21:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 21:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 21:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	95	%	70-130	12.30.2020 21:51		
4-Bromofluorobenzene	460-00-4	117	%	70-130	12.30.2020 21:51		



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H2-(0-6")**
Lab Sample Id: 683037-002

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92	mg/kg	12.31.2020 15:25	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.30.2020 22:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.30.2020 22:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.30.2020 22:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.30.2020 22:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.30.2020 22:21	
o-Terphenyl	84-15-1	104	%	70-135	12.30.2020 22:21	



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H2-(0-6")**

Matrix: Soil

Date Received: 12.30.2020 15:00

Lab Sample Id: 683037-002

Date Collected: 12.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:

Seq Number: 3146475

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.30.2020 22:20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.30.2020 22:20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.30.2020 22:20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.30.2020 22:20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.30.2020 22:20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.30.2020 22:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.30.2020 22:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.30.2020 22:20	
4-Bromofluorobenzene	460-00-4	125	%	70-130	12.30.2020 22:20	



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H3-(0-6")**
Lab Sample Id: 683037-003

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.4	10.1	mg/kg	12.31.2020 15:31		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.30.2020 22:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.30.2020 22:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.30.2020 22:41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.30.2020 22:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	12.30.2020 22:41		
o-Terphenyl	84-15-1	106	%	70-135	12.30.2020 22:41		



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H3-(0-6")**

Matrix: Soil

Date Received: 12.30.2020 15:00

Lab Sample Id: 683037-003

Date Collected: 12.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:

Seq Number: 3146475

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 22:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 22:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 22:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.2020 22:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 22:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 22:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 22:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.30.2020 22:42		
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.30.2020 22:42		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H4-(0-6")**
 Lab Sample Id: 683037-004

Matrix: Soil
 Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.5	9.98	mg/kg	12.31.2020 15:37		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.30.2020 23:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.30.2020 23:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.30.2020 23:01	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.30.2020 23:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-135	12.30.2020 23:01		
o-Terphenyl	84-15-1	113	%	70-135	12.30.2020 23:01		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H4-(0-6")**
Lab Sample Id: 683037-004

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.30.2020 23:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.30.2020 23:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.30.2020 23:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.30.2020 23:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.30.2020 23:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.30.2020 23:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.30.2020 23:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.30.2020 23:05		
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.30.2020 23:05		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H5-(0-6")**
 Lab Sample Id: 683037-005

Matrix: Soil
 Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.0	9.98	mg/kg	12.31.2020 15:43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.30.2020 23:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.30.2020 23:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.30.2020 23:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.30.2020 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	12.30.2020 23:22	
o-Terphenyl	84-15-1	96	%	70-135	12.30.2020 23:22	



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H5-(0-6")**
Lab Sample Id: 683037-005

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 23:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 23:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 23:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.2020 23:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 23:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 23:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 23:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.30.2020 23:27		
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.30.2020 23:27		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H6-(0-6")**

Matrix: Soil

Date Received: 12.30.2020 15:00

Lab Sample Id: 683037-006

Date Collected: 12.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:

Seq Number: 3146578

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.0	9.90	mg/kg	12.31.2020 16:01		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:

Seq Number: 3146472

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 00:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 00:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 00:02	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 00:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	12.31.2020 00:02		
o-Terphenyl	84-15-1	106	%	70-135	12.31.2020 00:02		



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H6-(0-6")**
Lab Sample Id: 683037-006

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.30.2020 23:50	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.30.2020 23:50	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.30.2020 23:50	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.30.2020 23:50	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.30.2020 23:50	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.30.2020 23:50	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.30.2020 23:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.30.2020 23:50	
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.30.2020 23:50	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H7-(0-6")**
Lab Sample Id: 683037-007

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	12.31.2020 16:07	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 00:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 00:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 00:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 00:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.31.2020 00:22	
o-Terphenyl	84-15-1	86	%	70-135	12.31.2020 00:22	



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H7-(0-6")**

Matrix: Soil

Date Received: 12.30.2020 15:00

Lab Sample Id: 683037-007

Date Collected: 12.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:

Seq Number: 3146475

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.31.2020 00:12	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.31.2020 00:12	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.31.2020 00:12	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.31.2020 00:12	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.31.2020 00:12	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.31.2020 00:12	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.31.2020 00:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.31.2020 00:12		
4-Bromofluorobenzene	460-00-4	123	%	70-130	12.31.2020 00:12		



Certificate of Analytical Results 683037

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H8-(0-6")**
 Lab Sample Id: 683037-008

Matrix: Soil
 Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.1	9.98	mg/kg	12.31.2020 16:13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 00:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 00:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 00:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 00:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.31.2020 00:42	
o-Terphenyl	84-15-1	98	%	70-135	12.31.2020 00:42	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **H8-(0-6")**

Matrix: Soil

Date Received: 12.30.2020 15:00

Lab Sample Id: 683037-008

Date Collected: 12.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:

Seq Number: 3146475

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.31.2020 00:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.31.2020 00:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.31.2020 00:35	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.31.2020 00:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.31.2020 00:35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.31.2020 00:35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.31.2020 00:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.31.2020 00:35	
4-Bromofluorobenzene	460-00-4	123	%	70-130	12.31.2020 00:35	

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146578

Matrix: Solid

Prep Method: E300P

Date Prep: 12.31.2020

MB Sample Id: 7718219-1-BLK

LCS Sample Id: 7718219-1-BKS

LCSD Sample Id: 7718219-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	252	101	253	101	90-110	0	20	mg/kg	12.31.2020 12:30	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146578

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683037-001

MS Sample Id: 683037-001 S

MSD Sample Id: 683037-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	199	195	98	195	98	90-110	0	20	mg/kg	12.31.2020 15:13	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146578

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683040-003

MS Sample Id: 683040-003 S

MSD Sample Id: 683040-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4400	202	4590	94	4590	94	90-110	0	20	mg/kg	12.31.2020 16:37	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146472

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718214-1-BLK

LCS Sample Id: 7718214-1-BKS

LCSD Sample Id: 7718214-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	1150	115	70-135	6	35	mg/kg	12.30.2020 18:58	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1100	110	70-135	6	35	mg/kg	12.30.2020 18:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		104		118		70-135	%	12.30.2020 18:58
o-Terphenyl	95		114		94		70-135	%	12.30.2020 18:58

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146472

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718214-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.30.2020 18:38	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146472

Parent Sample Id: 682883-001

Matrix: Soil

MS Sample Id: 682883-001 S

Prep Method: SW8015P

Date Prep: 12.30.2020

MSD Sample Id: 682883-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1190	119	1020	102	70-135	15	35	mg/kg	12.30.2020 20:00	
Diesel Range Organics (DRO)	<49.9	997	881	88	945	95	70-135	7	35	mg/kg	12.30.2020 20:00	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		105		70-135	%	12.30.2020 20:00
o-Terphenyl	106		118		70-135	%	12.30.2020 20:00

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146475

MB Sample Id: 7718222-1-BLK

Matrix: Solid

LCS Sample Id: 7718222-1-BKS

Prep Method: SW5035A

Date Prep: 12.30.2020

LCSD Sample Id: 7718222-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0923	92	0.0922	92	70-130	0	35	mg/kg	12.30.2020 19:48	
Toluene	<0.00200	0.100	0.0888	89	0.0881	88	70-130	1	35	mg/kg	12.30.2020 19:48	
Ethylbenzene	<0.00200	0.100	0.0931	93	0.0916	92	71-129	2	35	mg/kg	12.30.2020 19:48	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.192	96	70-135	1	35	mg/kg	12.30.2020 19:48	
o-Xylene	<0.00200	0.100	0.0940	94	0.0933	93	71-133	1	35	mg/kg	12.30.2020 19:48	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		100		100		70-130	%	12.30.2020 19:48
4-Bromofluorobenzene	110		107		111		70-130	%	12.30.2020 19:48

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146475

Parent Sample Id: 683037-001

Matrix: Soil

MS Sample Id: 683037-001 S

Prep Method: SW5035A

Date Prep: 12.30.2020

MSD Sample Id: 683037-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.106	106	0.114	114	70-130	7	35	mg/kg	12.30.2020 20:33	
Toluene	<0.00201	0.100	0.100	100	0.108	108	70-130	8	35	mg/kg	12.30.2020 20:33	
Ethylbenzene	<0.00201	0.100	0.104	104	0.112	112	71-129	7	35	mg/kg	12.30.2020 20:33	
m,p-Xylenes	<0.00402	0.201	0.213	106	0.230	115	70-135	8	35	mg/kg	12.30.2020 20:33	
o-Xylene	<0.00201	0.100	0.104	104	0.114	114	71-133	9	35	mg/kg	12.30.2020 20:33	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		70-130	%	12.30.2020 20:33
4-Bromofluorobenzene	108		114		70-130	%	12.30.2020 20:33

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

301 West Wall Street, Ste
100 Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3848

Page 1 of 1

683037

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bear Booster

Project Location:
(county, state)

Lea County, NM

Project #:

212C-MD-02387

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)SAMPLING
YEAR: 2020
DATE
TIMEMATRIX
WATER
SOIL
HCL
HNO₃
ICE
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 300.0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

Hold

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

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

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 12.30.2020 03.00.00 PM

Work Order #: 683037

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)?	2.6
#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:



Martha Castro

Date: 12.30.2020

Checklist reviewed by:



Jessica Kramer

Date: 12.31.2020

Certificate of Analysis Summary 683040



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-001	683040-002	683040-003	683040-004	683040-005	683040-006
	<i>Field Id:</i>	T-1(0-1')	T-1(1')	T-1(2')	T-1(3')	T-1(4')	T-2(0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 15:43	12.29.2020 15:43
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.31.2020 00:57	12.31.2020 01:20	12.31.2020 02:40	12.31.2020 03:02	12.31.2020 03:25	12.31.2020 03:47
	<i>Units/RL:</i>	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	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399	<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	<i>Extracted:</i>	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00
	<i>Analyzed:</i>	12.31.2020 16:19	12.31.2020 16:25	12.31.2020 16:31	12.31.2020 16:49	12.31.2020 16:55	12.31.2020 17:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4240 50.1	1790 50.2	4400 49.6	387 10.0	13.9 10.0	935 10.1
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.31.2020 01:02	12.31.2020 01:22	12.31.2020 01:42	12.31.2020 02:02	12.31.2020 02:22	12.31.2020 02:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.1 50.1
Diesel Range Organics (DRO)		<50.1 50.1	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.1 50.1
Total TPH		<50.1 50.1	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.1 50.1

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 683040

Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-007	683040-008	683040-009	683040-010	683040-011	683040-012
	<i>Field Id:</i>	T-2(1')	T-2(2')	T-2(3')	T-2(4')	T-3(0-1')	T-3(1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.31.2020 04:10	12.31.2020 04:32	12.31.2020 04:55	12.31.2020 05:17	12.31.2020 05:40	12.31.2020 06:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00398 0.00398	<0.00403 0.00403	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00	12.31.2020 09:00
	<i>Analyzed:</i>	12.31.2020 17:19	12.31.2020 17:25	12.31.2020 17:31	12.31.2020 17:37	12.31.2020 17:43	12.31.2020 17:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		18.9 9.98	11.6 9.92	13.6 9.94	18.6 9.98	2970 49.8	2120 49.9
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.31.2020 03:02	12.31.2020 01:22	12.31.2020 01:42	12.31.2020 02:02	12.31.2020 02:22	12.31.2020 02:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.4 50.4	<50.0 50.0	<49.9 49.9	<50.1 50.1
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.4 50.4	<50.0 50.0	<49.9 49.9	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.4 50.4	<50.0 50.0	<49.9 49.9	<50.1 50.1
Total TPH		<50.0 50.0	<49.9 49.9	<50.4 50.4	<50.0 50.0	<49.9 49.9	<50.1 50.1

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 683040

Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-013	683040-014	683040-015	683040-016	683040-017	683040-018
	<i>Field Id:</i>	T-3(2')	T-3(3')	T-4(0-1')	T-4(1')	T-4(2')	T-4(3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.30.2020 21:43	12.30.2020 22:05	12.30.2020 22:27	12.30.2020 22:50	12.30.2020 23:12	12.30.2020 23:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401	<0.00401 0.00401	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30
	<i>Analyzed:</i>	12.31.2020 18:25	12.31.2020 18:43	12.31.2020 18:49	12.31.2020 18:55	12.31.2020 19:01	12.31.2020 19:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		10.8 9.90	<9.96 9.96	1420 49.9	19.3 10.0	19.7 10.1	32.7 10.1
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00
	<i>Analyzed:</i>	12.31.2020 03:02	12.31.2020 04:41	12.31.2020 05:40	12.31.2020 06:00	12.31.2020 06:20	12.31.2020 06:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.1 50.1	<50.2 50.2
Diesel Range Organics (DRO)		<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.1 50.1	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.1 50.1	<50.2 50.2
Total TPH		<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.1 50.1	<50.2 50.2

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 683040



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-019	683040-020	683040-021	683040-022	683040-023	683040-024
	<i>Field Id:</i>	T-5(0-1')	T-5(1')	T-5(2')	T-5(3')	T-5(4')	T-6(0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.30.2020 23:57	12.31.2020 00:19	12.31.2020 00:42	12.31.2020 01:04	12.31.2020 02:21	12.31.2020 02:44
	<i>Units/RL:</i>	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	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00401 0.00401	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30
	<i>Analyzed:</i>	12.31.2020 19:25	12.31.2020 19:31	12.31.2020 19:37	12.31.2020 19:42	12.31.2020 19:48	12.31.2020 20:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1790 49.6	1320 49.9	16.2 9.98	18.5 9.92	21.9 9.96	11.5 9.98
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00
	<i>Analyzed:</i>	12.31.2020 07:00	12.31.2020 07:20	12.31.2020 07:40	12.31.2020 08:00	12.31.2020 08:20	12.31.2020 08:59
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.2 50.2
Diesel Range Organics (DRO)		<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.2 50.2
Total TPH		<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.2 50.2

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Certificate of Analysis Summary 683040



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-025	683040-026	683040-027	683040-028	683040-029	683040-030
	<i>Field Id:</i>	T-6(1')	T-6(2')	T-7(0-1')	T-7(1')	T-7(2')	T-7(3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 17:00
	<i>Analyzed:</i>	12.31.2020 03:06	12.31.2020 03:29	12.31.2020 03:51	12.31.2020 04:13	12.31.2020 04:36	12.31.2020 04:58
	<i>Units/RL:</i>	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	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00401 0.00401	<0.00403 0.00403	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30
	<i>Analyzed:</i>	12.31.2020 20:12	12.31.2020 20:30	12.31.2020 20:36	12.31.2020 20:42	12.31.2020 20:48	12.31.2020 20:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<10.0 10.0	<9.98 9.98	2490 49.8	23.7 9.98	28.7 9.96	40.3 9.96
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00
	<i>Analyzed:</i>	12.31.2020 09:19	12.31.2020 09:39	12.31.2020 09:59	12.31.2020 10:19	12.31.2020 10:39	12.31.2020 10:59
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.1 50.1	<50.1 50.1
Diesel Range Organics (DRO)		<50.1 50.1	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.1 50.1	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.1 50.1	<50.1 50.1
Total TPH		<50.1 50.1	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.1 50.1	<50.1 50.1

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Certificate of Analysis Summary 683040

Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-031	683040-032	683040-033	683040-034	683040-035	683040-036
	<i>Field Id:</i>	T-7(4')	T-8(0-1')	T-8(1')	T-8(2')	T-8(3')	T-9(0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 17:00	12.30.2020 17:00	12.30.2020 18:00	12.30.2020 18:00	12.30.2020 18:00	12.30.2020 18:00
	<i>Analyzed:</i>	12.31.2020 05:21	12.31.2020 05:43	12.31.2020 09:25	12.31.2020 09:47	12.31.2020 10:10	12.31.2020 10:32
	<i>Units/RL:</i>	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	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400
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	<i>Extracted:</i>	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30
	<i>Analyzed:</i>	12.31.2020 21:00	12.31.2020 21:06	12.31.2020 21:42	12.31.2020 22:00	12.31.2020 22:06	12.31.2020 22:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		32.1 9.96	343 9.98	<9.94 9.94	<9.98 9.98	<49.8 49.8	<50.2 50.2
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00
	<i>Analyzed:</i>	12.31.2020 04:41	12.31.2020 05:40	12.31.2020 06:00	12.31.2020 06:20	12.31.2020 06:40	12.31.2020 07:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.0 50.0
Total TPH		<50.1 50.1	<50.0 50.0	<49.9 49.9	<50.1 50.1	<50.0 50.0	<50.0 50.0

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Certificate of Analysis Summary 683040



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683040-037	683040-038	683040-039	683040-040	683040-041	683040-042
	<i>Field Id:</i>	T-9(1')	T-9(2')	T-9(3')	T-9(4')	T10(0-1')	T10(1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00	12.29.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	12.30.2020 18:00	12.30.2020 18:00	12.30.2020 18:00	12.30.2020 18:00	12.30.2020 18:00	12.30.2020 18:00
	<i>Analyzed:</i>	12.31.2020 10:55	12.31.2020 11:17	12.31.2020 11:39	12.31.2020 12:02	12.31.2020 12:24	12.31.2020 12:47
	<i>Units/RL:</i>	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		<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400
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	<i>Extracted:</i>	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30	12.31.2020 09:30
	<i>Analyzed:</i>	12.31.2020 22:18	12.31.2020 22:36	12.31.2020 22:42	12.31.2020 22:48	12.31.2020 22:54	12.31.2020 23:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		62.9 49.6	<9.98 9.98	<9.96 9.96	<49.9 49.9	757 10.0	43.6 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00	12.30.2020 19:00
	<i>Analyzed:</i>	12.31.2020 07:20	12.31.2020 07:40	12.31.2020 08:00	12.31.2020 08:20	12.31.2020 08:59	12.31.2020 09:19
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.2 50.2
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.2 50.2
Total TPH		<49.9 49.9	<50.1 50.1	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.2 50.2

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Certificate of Analysis Summary 683040

Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387

Contact: Mike Carmona

Project Location: Lea County, NM

Date Received in Lab: Wed 12.30.2020 15:00

Report Date: 01.04.2021 16:52

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	683040-043	683040-044				
	Field Id:	T10(2')	T10(3')				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	12.29.2020 00:00	12.29.2020 00:00				
BTEX by EPA 8021B	Extracted:	12.30.2020 18:00	12.30.2020 18:00				
	Analyzed:	12.31.2020 14:07	12.31.2020 14:29				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00200 0.00200				
Toluene		<0.00200 0.00200	<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200				
m,p-Xylenes		<0.00400 0.00400	<0.00400 0.00400				
o-Xylene		<0.00200 0.00200	<0.00200 0.00200				
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200				
Total BTEX		<0.00200 0.00200	<0.00200 0.00200				
Inorganic Anions by EPA 300/300.1	Extracted:	12.31.2020 09:30	12.31.2020 09:30				
	Analyzed:	12.31.2020 23:06	12.31.2020 23:23				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		22.9 9.92	34.5 9.92				
TPH By SW8015 Mod	Extracted:	12.30.2020 19:00	12.30.2020 19:00				
	Analyzed:	12.31.2020 09:39	12.31.2020 09:59				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.2 50.2				
Diesel Range Organics (DRO)		<50.1 50.1	<50.2 50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.2 50.2				
Total TPH		<50.1 50.1	<50.2 50.2				

BRL - Below Reporting Limit

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





Analytical Report 683040

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Bear Booster

212C-MD-02387

01.04.2021

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.04.2021

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **683040**

Bear Booster

Project Address: Lea County, 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 Eurofins Xenco, LLC Report Number(s) 683040. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683040 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1(0-1')	S	12.29.2020 00:00		683040-001
T-1(1')	S	12.29.2020 00:00		683040-002
T-1(2')	S	12.29.2020 00:00		683040-003
T-1(3')	S	12.29.2020 00:00		683040-004
T-1(4')	S	12.29.2020 15:43		683040-005
T-2(0-1')	S	12.29.2020 15:43		683040-006
T-2(1')	S	12.29.2020 00:00		683040-007
T-2(2')	S	12.29.2020 00:00		683040-008
T-2(3')	S	12.29.2020 00:00		683040-009
T-2(4')	S	12.29.2020 00:00		683040-010
T-3(0-1')	S	12.29.2020 00:00		683040-011
T-3(1')	S	12.29.2020 00:00		683040-012
T-3(2')	S	12.29.2020 00:00		683040-013
T-3(3')	S	12.29.2020 00:00		683040-014
T-4(0-1')	S	12.29.2020 00:00		683040-015
T-4(1')	S	12.29.2020 00:00		683040-016
T-4(2')	S	12.29.2020 00:00		683040-017
T-4(3')	S	12.29.2020 00:00		683040-018
T-5(0-1')	S	12.29.2020 00:00		683040-019
T-5(1')	S	12.29.2020 00:00		683040-020
T-5(2')	S	12.29.2020 00:00		683040-021
T-5(3')	S	12.29.2020 00:00		683040-022
T-5(4')	S	12.29.2020 00:00		683040-023
T-6(0-1')	S	12.29.2020 00:00		683040-024
T-6(1')	S	12.29.2020 00:00		683040-025
T-6(2')	S	12.29.2020 00:00		683040-026
T-7(0-1')	S	12.29.2020 00:00		683040-027
T-7(1')	S	12.29.2020 00:00		683040-028
T-7(2')	S	12.29.2020 00:00		683040-029
T-7(3')	S	12.29.2020 00:00		683040-030
T-7(4')	S	12.29.2020 00:00		683040-031
T-8(0-1')	S	12.29.2020 00:00		683040-032
T-8(1')	S	12.29.2020 00:00		683040-033
T-8(2')	S	12.29.2020 00:00		683040-034
T-8(3')	S	12.29.2020 00:00		683040-035
T-9(0-1')	S	12.29.2020 00:00		683040-036
T-9(1')	S	12.29.2020 00:00		683040-037
T-9(2')	S	12.29.2020 00:00		683040-038
T-9(3')	S	12.29.2020 00:00		683040-039
T-9(4')	S	12.29.2020 00:00		683040-040
T10(0-1')	S	12.29.2020 00:00		683040-041
T10(1')	S	12.29.2020 00:00		683040-042
T10(2')	S	12.29.2020 00:00		683040-043



Sample Cross Reference 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

T10(3')	S	12.29.2020 00:00	683040-044
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CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Bear Booster

Project ID: 212C-MD-02387
Work Order Number(s): 683040

Report Date: 01.04.2021
Date Received: 12.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-1(0-1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-001 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4240	50.1	mg/kg	12.31.2020 16:19		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146472 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 01:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 01:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 01:02	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 01:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	12.31.2020 01:02		
o-Terphenyl	84-15-1	104	%	70-135	12.31.2020 01:02		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-1(0-1')**
Lab Sample Id: 683040-001

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 00:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 00:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 00:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 00:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 00:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 00:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 00:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.31.2020 00:57	
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.31.2020 00:57	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-1(1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-002 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1790	50.2	mg/kg	12.31.2020 16:25		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146472 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 01:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 01:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 01:22	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 01:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	12.31.2020 01:22		
o-Terphenyl	84-15-1	110	%	70-135	12.31.2020 01:22		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-1(1')**
Lab Sample Id: 683040-002

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 01:20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 01:20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 01:20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 01:20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 01:20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 01:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 01:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	12.31.2020 01:20		
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.31.2020 01:20		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-1(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-003 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4400	49.6	mg/kg	12.31.2020 16:31		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146472 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 01:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 01:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 01:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 01:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	12.31.2020 01:42		
o-Terphenyl	84-15-1	98	%	70-135	12.31.2020 01:42		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-1(2')
Lab Sample Id: 683040-003

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 02:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 02:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 02:40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 02:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 02:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 02:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 02:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.31.2020 02:40	
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.31.2020 02:40	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-1(3') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-004 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	387	10.0	mg/kg	12.31.2020 16:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146472 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	12.31.2020 02:02		
o-Terphenyl	84-15-1	97	%	70-135	12.31.2020 02:02		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-1(3')
Lab Sample Id: 683040-004

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 03:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 03:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 03:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 03:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 03:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 03:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 03:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	12.31.2020 03:02	
4-Bromofluorobenzene	460-00-4	118	%	70-130	12.31.2020 03:02	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-1(4')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-005 Date Collected: 12.29.2020 15:43
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.9	10.0	mg/kg	12.31.2020 16:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146472 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 02:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 02:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 02:22	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 02:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	12.31.2020 02:22		
o-Terphenyl	84-15-1	96	%	70-135	12.31.2020 02:22		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-1(4')**
Lab Sample Id: 683040-005

Matrix: Soil
Date Collected: 12.29.2020 15:43

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 03:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 03:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 03:25	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 03:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 03:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 03:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 03:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	12.31.2020 03:25		
1,4-Difluorobenzene	540-36-3	103	%	70-130	12.31.2020 03:25		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(0-1')
Lab Sample Id: 683040-006

Matrix: Soil
Date Collected: 12.29.2020 15:43

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	935	10.1	mg/kg	12.31.2020 17:13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	12.31.2020 02:42	
o-Terphenyl	84-15-1	114	%	70-135	12.31.2020 02:42	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(0-1')
Lab Sample Id: 683040-006

Matrix: Soil
Date Collected: 12.29.2020 15:43

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 03:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 03:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 03:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 03:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 03:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 03:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 03:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.31.2020 03:47		
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.31.2020 03:47		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(1') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-007 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	9.98	mg/kg	12.31.2020 17:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146472 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 03:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 03:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 03:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 03:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	12.31.2020 03:02		
o-Terphenyl	84-15-1	116	%	70-135	12.31.2020 03:02		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(1')
Lab Sample Id: 683040-007

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.31.2020 04:10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.31.2020 04:10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.31.2020 04:10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.31.2020 04:10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.31.2020 04:10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.31.2020 04:10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.31.2020 04:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	12.31.2020 04:10		
1,4-Difluorobenzene	540-36-3	106	%	70-130	12.31.2020 04:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-008 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.6	9.92	mg/kg	12.31.2020 17:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146471 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 01:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 01:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 01:22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 01:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	12.31.2020 01:22		
o-Terphenyl	84-15-1	102	%	70-135	12.31.2020 01:22		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(2')
Lab Sample Id: 683040-008

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 04:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 04:32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 04:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 04:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 04:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 04:32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 04:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	12.31.2020 04:32		
1,4-Difluorobenzene	540-36-3	109	%	70-130	12.31.2020 04:32		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(3') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-009 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.6	9.94	mg/kg	12.31.2020 17:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146471 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.4	50.4	mg/kg	12.31.2020 01:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.4	50.4	mg/kg	12.31.2020 01:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.4	50.4	mg/kg	12.31.2020 01:42	U	1
Total TPH	PHC635	<50.4	50.4	mg/kg	12.31.2020 01:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-135	12.31.2020 01:42		
o-Terphenyl	84-15-1	96	%	70-135	12.31.2020 01:42		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(3')
Lab Sample Id: 683040-009

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 04:55	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 04:55	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 04:55	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.31.2020 04:55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 04:55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 04:55	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.31.2020 04:55	
4-Bromofluorobenzene	460-00-4	124	%	70-130	12.31.2020 04:55	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(4') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-010 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.6	9.98	mg/kg	12.31.2020 17:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146471 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 02:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.31.2020 02:02		
o-Terphenyl	84-15-1	102	%	70-135	12.31.2020 02:02		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-2(4')
Lab Sample Id: 683040-010

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 05:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 05:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 05:17	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.31.2020 05:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 05:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 05:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 05:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.31.2020 05:17	
4-Bromofluorobenzene	460-00-4	125	%	70-130	12.31.2020 05:17	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-3(0-1')
Lab Sample Id: 683040-011

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146578

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2970	49.8	mg/kg	12.31.2020 17:43		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146471

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 02:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 02:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 02:22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 02:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.31.2020 02:22	
o-Terphenyl	84-15-1	92	%	70-135	12.31.2020 02:22	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-3(0-1')**
Lab Sample Id: 683040-011

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 05:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 05:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 05:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 05:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 05:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 05:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 05:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	12.31.2020 05:40		
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.31.2020 05:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-3(1') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-012 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:00 % Moisture:
 Seq Number: 3146578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2120	49.9	mg/kg	12.31.2020 17:49		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146471 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 02:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-135	12.31.2020 02:42		
o-Terphenyl	84-15-1	114	%	70-135	12.31.2020 02:42		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-3(1')**
Lab Sample Id: 683040-012

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146475

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 06:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 06:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 06:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 06:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 06:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 06:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 06:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	12.31.2020 06:03		
1,4-Difluorobenzene	540-36-3	103	%	70-130	12.31.2020 06:03		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-3(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-013 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.8	9.90	mg/kg	12.31.2020 18:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 17:00 % Moisture:
 Seq Number: 3146471 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 03:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 03:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 03:02	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 03:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	12.31.2020 03:02		
o-Terphenyl	84-15-1	110	%	70-135	12.31.2020 03:02		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-3(2')
Lab Sample Id: 683040-013

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.30.2020 21:43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.30.2020 21:43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.30.2020 21:43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.30.2020 21:43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.30.2020 21:43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.30.2020 21:43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.30.2020 21:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	12.30.2020 21:43	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.30.2020 21:43	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-3(3') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-014 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	12.31.2020 18:43	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 04:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 04:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 04:41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 04:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.31.2020 04:41	
o-Terphenyl	84-15-1	116	%	70-135	12.31.2020 04:41	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-3(3')
Lab Sample Id: 683040-014

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.30.2020 22:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.30.2020 22:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.30.2020 22:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.30.2020 22:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.30.2020 22:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.30.2020 22:05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.30.2020 22:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.30.2020 22:05	
4-Bromofluorobenzene	460-00-4	89	%	70-130	12.30.2020 22:05	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-4(0-1')
Lab Sample Id: 683040-015

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:30

% Moisture:
Basis: Wet Weight

Seq Number: 3146547

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1420	49.9	mg/kg	12.31.2020 18:49		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 19:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146502

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 05:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 05:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 05:40	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 05:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.31.2020 05:40	
o-Terphenyl	84-15-1	114	%	70-135	12.31.2020 05:40	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-4(0-1')
Lab Sample Id: 683040-015

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 22:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 22:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 22:27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.30.2020 22:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 22:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 22:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 22:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.30.2020 22:27		
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.30.2020 22:27		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-4(1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-016 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.3	10.0	mg/kg	12.31.2020 18:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 06:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 06:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 06:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 06:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	12.31.2020 06:00		
o-Terphenyl	84-15-1	98	%	70-135	12.31.2020 06:00		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-4(1')**
Lab Sample Id: 683040-016

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 22:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 22:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 22:50	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.2020 22:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 22:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 22:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 22:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.30.2020 22:50		
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.30.2020 22:50		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-4(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-017 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.7	10.1	mg/kg	12.31.2020 19:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	12.31.2020 06:20		
o-Terphenyl	84-15-1	108	%	70-135	12.31.2020 06:20		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-4(2')
Lab Sample Id: 683040-017

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 23:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 23:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 23:12	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.2020 23:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 23:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 23:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 23:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.30.2020 23:12		
4-Bromofluorobenzene	460-00-4	91	%	70-130	12.30.2020 23:12		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-4(3') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-018 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.7	10.1	mg/kg	12.31.2020 19:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 06:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 06:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 06:40	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 06:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	12.31.2020 06:40		
o-Terphenyl	84-15-1	110	%	70-135	12.31.2020 06:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-4(3')
Lab Sample Id: 683040-018

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.30.2020 23:34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.30.2020 23:34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.30.2020 23:34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.30.2020 23:34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.30.2020 23:34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.30.2020 23:34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.30.2020 23:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.30.2020 23:34		
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.30.2020 23:34		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(0-1') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-019 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1790	49.6	mg/kg	12.31.2020 19:25		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 07:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 07:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 07:00	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 07:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	12.31.2020 07:00		
o-Terphenyl	84-15-1	109	%	70-135	12.31.2020 07:00		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(0-1')
Lab Sample Id: 683040-019

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.30.2020 23:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.30.2020 23:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.30.2020 23:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.30.2020 23:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.30.2020 23:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.30.2020 23:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.30.2020 23:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.30.2020 23:57		
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.30.2020 23:57		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(1') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-020 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1320	49.9	mg/kg	12.31.2020 19:31		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 07:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 07:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 07:20	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 07:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.31.2020 07:20		
o-Terphenyl	84-15-1	118	%	70-135	12.31.2020 07:20		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(1')
Lab Sample Id: 683040-020

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.31.2020 00:19	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.31.2020 00:19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.31.2020 00:19	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.31.2020 00:19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.31.2020 00:19	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.31.2020 00:19	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.31.2020 00:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 00:19	
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.31.2020 00:19	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-021 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.2	9.98	mg/kg	12.31.2020 19:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 07:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 07:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 07:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 07:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	12.31.2020 07:40		
o-Terphenyl	84-15-1	106	%	70-135	12.31.2020 07:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(2')
Lab Sample Id: 683040-021

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 00:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 00:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 00:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 00:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 00:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 00:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 00:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 00:42		
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.31.2020 00:42		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(3') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-022 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.5	9.92	mg/kg	12.31.2020 19:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 08:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 08:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 08:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 08:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	12.31.2020 08:00		
o-Terphenyl	84-15-1	115	%	70-135	12.31.2020 08:00		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(3')
Lab Sample Id: 683040-022

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 01:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 01:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 01:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 01:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 01:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 01:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 01:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 01:04	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.31.2020 01:04	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(4') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-023 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.9	9.96	mg/kg	12.31.2020 19:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 08:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 08:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 08:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 08:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	12.31.2020 08:20		
o-Terphenyl	84-15-1	100	%	70-135	12.31.2020 08:20		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-5(4')
Lab Sample Id: 683040-023

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 02:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 02:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 02:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 02:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 02:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 02:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 02:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.31.2020 02:21		
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.31.2020 02:21		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-6(0-1')
Lab Sample Id: 683040-024

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:30

% Moisture:
Basis: Wet Weight

Seq Number: 3146547

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.5	9.98	mg/kg	12.31.2020 20:06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 19:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146502

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 08:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 08:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 08:59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 08:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	12.31.2020 08:59	
o-Terphenyl	84-15-1	112	%	70-135	12.31.2020 08:59	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-6(0-1')**
Lab Sample Id: 683040-024

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 02:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 02:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 02:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 02:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 02:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 02:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 02:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.31.2020 02:44	
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.31.2020 02:44	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-6(1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-025 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	12.31.2020 20:12	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 09:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 09:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 09:19	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 09:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.31.2020 09:19	
o-Terphenyl	84-15-1	118	%	70-135	12.31.2020 09:19	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-6(1')**
Lab Sample Id: 683040-025

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 03:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 03:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 03:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 03:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 03:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 03:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 03:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 03:06		
4-Bromofluorobenzene	460-00-4	92	%	70-130	12.31.2020 03:06		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-6(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-026 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.31.2020 20:30	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.31.2020 09:39	
o-Terphenyl	84-15-1	97	%	70-135	12.31.2020 09:39	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-6(2')
Lab Sample Id: 683040-026

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 03:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 03:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 03:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 03:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 03:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 03:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 03:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 03:29		
4-Bromofluorobenzene	460-00-4	91	%	70-130	12.31.2020 03:29		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(0-1')
Lab Sample Id: 683040-027

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:30

% Moisture:
Basis: Wet Weight

Seq Number: 3146547

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2490	49.8	mg/kg	12.31.2020 20:36		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 12.30.2020 19:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146502

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 09:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 09:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 09:59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 09:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	12.31.2020 09:59		
o-Terphenyl	84-15-1	100	%	70-135	12.31.2020 09:59		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(0-1')
Lab Sample Id: 683040-027

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 03:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 03:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 03:51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.31.2020 03:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 03:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 03:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 03:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 03:51		
4-Bromofluorobenzene	460-00-4	91	%	70-130	12.31.2020 03:51		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(1') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-028 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.7	9.98	mg/kg	12.31.2020 20:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 10:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 10:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 10:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 10:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-135	12.31.2020 10:19		
o-Terphenyl	84-15-1	107	%	70-135	12.31.2020 10:19		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(1')
Lab Sample Id: 683040-028

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.31.2020 04:13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.31.2020 04:13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.31.2020 04:13	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.31.2020 04:13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.31.2020 04:13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.31.2020 04:13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.31.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 04:13	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 04:13	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-029 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.7	9.96	mg/kg	12.31.2020 20:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 10:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 10:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 10:39	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 10:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-135	12.31.2020 10:39		
o-Terphenyl	84-15-1	98	%	70-135	12.31.2020 10:39		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(2')
Lab Sample Id: 683040-029

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.31.2020 04:36	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.31.2020 04:36	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.31.2020 04:36	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.31.2020 04:36	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.31.2020 04:36	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.31.2020 04:36	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.31.2020 04:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 04:36		
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 04:36		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(3') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-030 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.3	9.96	mg/kg	12.31.2020 20:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146502 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 10:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 10:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 10:59	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 10:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	12.31.2020 10:59		
o-Terphenyl	84-15-1	98	%	70-135	12.31.2020 10:59		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(3')
Lab Sample Id: 683040-030

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.31.2020 04:58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.31.2020 04:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.31.2020 04:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.31.2020 04:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.31.2020 04:58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.31.2020 04:58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.31.2020 04:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 04:58	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 04:58	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(4') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-031 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146547 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.1	9.96	mg/kg	12.31.2020 21:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 04:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 04:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 04:41	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 04:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	12.31.2020 04:41		
o-Terphenyl	84-15-1	94	%	70-135	12.31.2020 04:41		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-7(4')
Lab Sample Id: 683040-031

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 05:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 05:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 05:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.31.2020 05:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 05:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 05:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 05:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 05:21		
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.31.2020 05:21		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-8(0-1')**
 Lab Sample Id: 683040-032

Matrix: Soil
 Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 12.31.2020 09:30

% Moisture:
 Basis: Wet Weight

Seq Number: 3146547

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	343	9.98	mg/kg	12.31.2020 21:06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: MAB

Analyst: CAC

Date Prep: 12.30.2020 19:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3146503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 05:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 05:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 05:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 05:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	12.31.2020 05:40		
o-Terphenyl	84-15-1	116	%	70-135	12.31.2020 05:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-8(0-1')**
Lab Sample Id: 683040-032

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146476

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 05:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 05:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 05:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 05:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 05:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 05:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 05:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 05:43	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 05:43	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-8(1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-033 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	12.31.2020 21:42	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 06:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 06:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 06:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 06:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	12.31.2020 06:00		
o-Terphenyl	84-15-1	106	%	70-135	12.31.2020 06:00		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-8(1')**
Lab Sample Id: 683040-033

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 09:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 09:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 09:25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 09:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 09:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 09:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 09:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	12.31.2020 09:25	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.31.2020 09:25	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-8(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-034 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.31.2020 22:00	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 06:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	12.31.2020 06:20		
o-Terphenyl	84-15-1	94	%	70-135	12.31.2020 06:20		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-8(2')
Lab Sample Id: 683040-034

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 09:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 09:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 09:47	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 09:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 09:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 09:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 09:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.31.2020 09:47		
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 09:47		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-8(3')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-035 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<49.8	49.8	mg/kg	12.31.2020 22:06	U	5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 06:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 06:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 06:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 06:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	12.31.2020 06:40	
o-Terphenyl	84-15-1	115	%	70-135	12.31.2020 06:40	



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-8(3')
Lab Sample Id: 683040-035

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 10:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 10:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 10:10	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 10:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 10:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 10:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 10:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 10:10		
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 10:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(0-1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-036 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<50.2	50.2	mg/kg	12.31.2020 22:12	U	5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 07:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 07:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 07:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 07:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	127	%	70-135	12.31.2020 07:00		
o-Terphenyl	84-15-1	105	%	70-135	12.31.2020 07:00		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(0-1')**
Lab Sample Id: 683040-036

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 10:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 10:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 10:32	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 10:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 10:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 10:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 10:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 10:32		
4-Bromofluorobenzene	460-00-4	93	%	70-130	12.31.2020 10:32		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-037 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.9	49.6	mg/kg	12.31.2020 22:18		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 07:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 07:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 07:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 07:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-135	12.31.2020 07:20		
o-Terphenyl	84-15-1	94	%	70-135	12.31.2020 07:20		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(1')**
Lab Sample Id: 683040-037

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 10:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 10:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 10:55	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 10:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 10:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 10:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 10:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 10:55		
4-Bromofluorobenzene	460-00-4	92	%	70-130	12.31.2020 10:55		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-9(2') Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-038 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	12.31.2020 22:36	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 07:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 07:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 07:40	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 07:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	12.31.2020 07:40		
o-Terphenyl	84-15-1	122	%	70-135	12.31.2020 07:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: T-9(2')
Lab Sample Id: 683040-038

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 11:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 11:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 11:17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 11:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 11:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 11:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 11:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 11:17	
4-Bromofluorobenzene	460-00-4	91	%	70-130	12.31.2020 11:17	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(3')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-039 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	12.31.2020 22:42	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 08:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 08:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 08:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 08:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	12.31.2020 08:00	
o-Terphenyl	84-15-1	108	%	70-135	12.31.2020 08:00	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(3')**
Lab Sample Id: 683040-039

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 11:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 11:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 11:39	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 11:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 11:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 11:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 11:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	12.31.2020 11:39	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 11:39	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(4')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-040 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<49.9	49.9	mg/kg	12.31.2020 22:48	U	5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.31.2020 08:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.31.2020 08:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.31.2020 08:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.31.2020 08:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	12.31.2020 08:20	
o-Terphenyl	84-15-1	112	%	70-135	12.31.2020 08:20	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T-9(4')**
Lab Sample Id: 683040-040

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 12:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 12:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 12:02	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 12:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 12:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 12:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 12:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 12:02		
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 12:02		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(0-1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-041 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	757	10.0	mg/kg	12.31.2020 22:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.31.2020 08:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.31.2020 08:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.31.2020 08:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.31.2020 08:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.31.2020 08:59		
o-Terphenyl	84-15-1	110	%	70-135	12.31.2020 08:59		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(0-1')**
Lab Sample Id: 683040-041

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 12:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 12:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 12:24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 12:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 12:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 12:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 12:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.31.2020 12:24		
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 12:24		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(1')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-042 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.6	10.0	mg/kg	12.31.2020 23:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 09:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 09:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 09:19	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 09:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	12.31.2020 09:19	
o-Terphenyl	84-15-1	94	%	70-135	12.31.2020 09:19	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(1')**
Lab Sample Id: 683040-042

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 12:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 12:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 12:47	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 12:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 12:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 12:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 12:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	12.31.2020 12:47		
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 12:47		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(2')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-043 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.9	9.92	mg/kg	12.31.2020 23:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	12.31.2020 09:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	12.31.2020 09:39		
o-Terphenyl	84-15-1	102	%	70-135	12.31.2020 09:39		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(2')**
Lab Sample Id: 683040-043

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 14:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 14:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 14:07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 14:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 14:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 14:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 14:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.31.2020 14:07		
4-Bromofluorobenzene	460-00-4	85	%	70-130	12.31.2020 14:07		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(3')** Matrix: Soil Date Received: 12.30.2020 15:00
 Lab Sample Id: 683040-044 Date Collected: 12.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 12.31.2020 09:30 % Moisture:
 Seq Number: 3146548 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.5	9.92	mg/kg	12.31.2020 23:23		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: MAB
 Analyst: CAC Date Prep: 12.30.2020 19:00 % Moisture:
 Seq Number: 3146503 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.31.2020 09:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	12.31.2020 09:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.31.2020 09:59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	12.31.2020 09:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.31.2020 09:59		
o-Terphenyl	84-15-1	113	%	70-135	12.31.2020 09:59		



Certificate of Analytical Results 683040

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **T10(3')**
Lab Sample Id: 683040-044

Matrix: Soil
Date Collected: 12.29.2020 00:00

Date Received: 12.30.2020 15:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 12.30.2020 18:00

% Moisture:
Basis: Wet Weight

Seq Number: 3146524

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.31.2020 14:29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.31.2020 14:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.31.2020 14:29	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.31.2020 14:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.31.2020 14:29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.31.2020 14:29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.31.2020 14:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.31.2020 14:29	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.31.2020 14:29	

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146578

Matrix: Solid

Prep Method: E300P

Date Prep: 12.31.2020

MB Sample Id: 7718219-1-BLK

LCS Sample Id: 7718219-1-BKS

LCSD Sample Id: 7718219-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	252	101	253	101	90-110	0	20	mg/kg	12.31.2020 12:30	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146547

Matrix: Solid

Prep Method: E300P

Date Prep: 12.31.2020

MB Sample Id: 7718220-1-BLK

LCS Sample Id: 7718220-1-BKS

LCSD Sample Id: 7718220-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	252	101	253	101	90-110	0	20	mg/kg	12.31.2020 12:30	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146578

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683037-001

MS Sample Id: 683037-001 S

MSD Sample Id: 683037-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	199	195	98	195	98	90-110	0	20	mg/kg	12.31.2020 15:13	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146578

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683040-003

MS Sample Id: 683040-003 S

MSD Sample Id: 683040-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4400	202	4590	94	4590	94	90-110	0	20	mg/kg	12.31.2020 16:37	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146547

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683040-013

MS Sample Id: 683040-013 S

MSD Sample Id: 683040-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.8	199	196	93	196	93	90-110	0	20	mg/kg	12.31.2020 18:31	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146547

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683040-023

MS Sample Id: 683040-023 S

MSD Sample Id: 683040-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	21.9	199	214	97	212	96	90-110	1	20	mg/kg	12.31.2020 19:54	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146548

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683040-033

MS Sample Id: 683040-033 S

MSD Sample Id: 683040-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	191	96	185	93	90-110	3	20	mg/kg	12.31.2020 21:48	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3146548

Matrix: Soil

Prep Method: E300P

Date Prep: 12.31.2020

Parent Sample Id: 683040-043

MS Sample Id: 683040-043 S

MSD Sample Id: 683040-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.9	198	212	96	211	95	90-110	0	20	mg/kg	12.31.2020 23:12	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146471

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718213-1-BLK

LCS Sample Id: 7718213-1-BKS

LCSD Sample Id: 7718213-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1160	116	70-135	6	35	mg/kg	12.30.2020 18:58	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1130	113	70-135	1	35	mg/kg	12.30.2020 18:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		108		101		70-135	%	12.30.2020 18:58
o-Terphenyl	80		110		102		70-135	%	12.30.2020 18:58

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146472

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718214-1-BLK

LCS Sample Id: 7718214-1-BKS

LCSD Sample Id: 7718214-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	1150	115	70-135	6	35	mg/kg	12.30.2020 18:58	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1100	110	70-135	6	35	mg/kg	12.30.2020 18:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		104		118		70-135	%	12.30.2020 18:58
o-Terphenyl	95		114		94		70-135	%	12.30.2020 18:58

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146502

MB Sample Id: 7718215-1-BLK

Matrix: Solid

LCS Sample Id: 7718215-1-BKS

Prep Method: SW8015P

Date Prep: 12.30.2020

LCSD Sample Id: 7718215-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1010	101	1120	112	70-135	10	35	mg/kg	12.31.2020 04:01	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	983	98	70-135	6	35	mg/kg	12.31.2020 04:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	81		102		106		70-135	%	12.31.2020 04:01
o-Terphenyl	74		113		118		70-135	%	12.31.2020 04:01

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146503

MB Sample Id: 7718216-1-BLK

Matrix: Solid

LCS Sample Id: 7718216-1-BKS

Prep Method: SW8015P

Date Prep: 12.30.2020

LCSD Sample Id: 7718216-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	943	94	1120	112	70-135	17	35	mg/kg	12.31.2020 04:01	
Diesel Range Organics (DRO)	<50.0	1000	992	99	1100	110	70-135	10	35	mg/kg	12.31.2020 04:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		126		106		70-135	%	12.31.2020 04:01
o-Terphenyl	90		105		112		70-135	%	12.31.2020 04:01

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146471

Matrix: Solid

MB Sample Id: 7718213-1-BLK

Prep Method: SW8015P

Date Prep: 12.30.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.30.2020 18:38	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146472

Matrix: Solid

MB Sample Id: 7718214-1-BLK

Prep Method: SW8015P

Date Prep: 12.30.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.30.2020 18:38	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146502

Matrix: Solid

MB Sample Id: 7718215-1-BLK

Prep Method: SW8015P

Date Prep: 12.30.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.31.2020 03:42	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146503

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.30.2020

MB Sample Id: 7718216-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

12.31.2020 03:42

Flag

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146471

Matrix: Soil

Prep Method: SW8015P

Date Prep: 12.30.2020

Parent Sample Id: 683013-001

MS Sample Id: 683013-001 S

MSD Sample Id: 683013-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.1

Spike
Amount

1000

MS
Result

1200

MS
%Rec

120

MSD
Result

1100

MSD
%Rec

110

Limits

70-135

%RPD

9

RPD
Limit

35

Units

mg/kg

Analysis
Date

12.30.2020 20:00

Flag

Diesel Range Organics (DRO)

<50.1

1000

982

98

1080

108

70-135

10

35

mg/kg

12.30.2020 20:00

Surrogate

1-Chlorooctane

MS
%Rec

105

MS
FlagMSD
%Rec

111

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

12.30.2020 20:00

o-Terphenyl

113

109

70-135

%

12.30.2020 20:00

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146472

Matrix: Soil

Prep Method: SW8015P

Date Prep: 12.30.2020

Parent Sample Id: 682883-001

MS Sample Id: 682883-001 S

MSD Sample Id: 682883-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<49.9

Spike
Amount

997

MS
Result

1190

MS
%Rec

119

MSD
Result

1020

MSD
%Rec

102

Limits

70-135

%RPD

15

RPD
Limit

35

Units

mg/kg

Analysis
Date

12.30.2020 20:00

Flag

Diesel Range Organics (DRO)

<49.9

997

881

88

945

95

70-135

7

35

mg/kg

12.30.2020 20:00

Surrogate

1-Chlorooctane

MS
%Rec

121

MS
FlagMSD
%Rec

105

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

12.30.2020 20:00

o-Terphenyl

106

118

70-135

%

12.30.2020 20:00

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146502

Matrix: Soil

Prep Method: SW8015P

Date Prep: 12.30.2020

Parent Sample Id: 683040-014

MS Sample Id: 683040-014 S

MSD Sample Id: 683040-014 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.0

Spike
Amount

1000

MS
Result

1190

MS
%Rec

119

MSD
Result

1150

MSD
%Rec

115

Limits

70-135

%RPD

3

RPD
Limit

35

Units

mg/kg

Analysis
Date

12.31.2020 05:01

Flag

Diesel Range Organics (DRO)

<50.0

1000

996

100

1090

109

70-135

9

35

mg/kg

12.31.2020 05:01

Surrogate

1-Chlorooctane

MS
%Rec

108

MS
FlagMSD
%Rec

105

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

12.31.2020 05:01

o-Terphenyl

118

105

70-135

%

12.31.2020 05:01

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3146503

Parent Sample Id: 683040-031

Matrix: Soil

MS Sample Id: 683040-031 S

Prep Method: SW8015P

Date Prep: 12.30.2020

MSD Sample Id: 683040-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1180	118	1030	103	70-135	14	35	mg/kg	12.31.2020 05:01	
Diesel Range Organics (DRO)	<49.9	998	1050	105	989	99	70-135	6	35	mg/kg	12.31.2020 05:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		97		70-135	%	12.31.2020 05:01
o-Terphenyl	114		118		70-135	%	12.31.2020 05:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146475

MB Sample Id: 7718222-1-BLK

Matrix: Solid

LCS Sample Id: 7718222-1-BKS

Prep Method: SW5035A

Date Prep: 12.30.2020

LCSD Sample Id: 7718222-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0923	92	0.0922	92	70-130	0	35	mg/kg	12.30.2020 19:48	
Toluene	<0.00200	0.100	0.0888	89	0.0881	88	70-130	1	35	mg/kg	12.30.2020 19:48	
Ethylbenzene	<0.00200	0.100	0.0931	93	0.0916	92	71-129	2	35	mg/kg	12.30.2020 19:48	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.192	96	70-135	1	35	mg/kg	12.30.2020 19:48	
o-Xylene	<0.00200	0.100	0.0940	94	0.0933	93	71-133	1	35	mg/kg	12.30.2020 19:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		100		100		70-130	%	12.30.2020 19:48
4-Bromofluorobenzene	110		107		111		70-130	%	12.30.2020 19:48

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146476

MB Sample Id: 7718225-1-BLK

Matrix: Solid

LCS Sample Id: 7718225-1-BKS

Prep Method: SW5035A

Date Prep: 12.30.2020

LCSD Sample Id: 7718225-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0889	89	0.0972	97	70-130	9	35	mg/kg	12.30.2020 19:40	
Toluene	<0.00200	0.100	0.0880	88	0.0947	95	70-130	7	35	mg/kg	12.30.2020 19:40	
Ethylbenzene	<0.00200	0.100	0.0821	82	0.0912	91	71-129	11	35	mg/kg	12.30.2020 19:40	
m,p-Xylenes	<0.00400	0.200	0.168	84	0.185	93	70-135	10	35	mg/kg	12.30.2020 19:40	
o-Xylene	<0.00200	0.100	0.0826	83	0.0900	90	71-133	9	35	mg/kg	12.30.2020 19:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		95		70-130	%	12.30.2020 19:40
4-Bromofluorobenzene	87		83		84		70-130	%	12.30.2020 19:40

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146524

Matrix: Solid

Prep Method: SW5035A

Date Prep: 12.30.2020

MB Sample Id: 7718227-1-BLK

LCS Sample Id: 7718227-1-BKS

LCSD Sample Id: 7718227-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0959	96	0.104	104	70-130	8	35	mg/kg	12.31.2020 07:23	
Toluene	<0.00200	0.100	0.0916	92	0.101	101	70-130	10	35	mg/kg	12.31.2020 07:23	
Ethylbenzene	<0.00200	0.100	0.0851	85	0.0924	92	71-129	8	35	mg/kg	12.31.2020 07:23	
m,p-Xylenes	<0.00400	0.200	0.174	87	0.190	95	70-135	9	35	mg/kg	12.31.2020 07:23	
o-Xylene	<0.00200	0.100	0.0872	87	0.0948	95	71-133	8	35	mg/kg	12.31.2020 07:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		95		95		70-130	%	12.31.2020 07:23
4-Bromofluorobenzene	87		86		88		70-130	%	12.31.2020 07:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146475

Matrix: Soil

Prep Method: SW5035A

Date Prep: 12.30.2020

Parent Sample Id: 683037-001

MS Sample Id: 683037-001 S

MSD Sample Id: 683037-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.106	106	0.114	114	70-130	7	35	mg/kg	12.30.2020 20:33	
Toluene	<0.00201	0.100	0.100	100	0.108	108	70-130	8	35	mg/kg	12.30.2020 20:33	
Ethylbenzene	<0.00201	0.100	0.104	104	0.112	112	71-129	7	35	mg/kg	12.30.2020 20:33	
m,p-Xylenes	<0.00402	0.201	0.213	106	0.230	115	70-135	8	35	mg/kg	12.30.2020 20:33	
o-Xylene	<0.00201	0.100	0.104	104	0.114	114	71-133	9	35	mg/kg	12.30.2020 20:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		70-130	%	12.30.2020 20:33
4-Bromofluorobenzene	108		114		70-130	%	12.30.2020 20:33

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146476

Matrix: Soil

Prep Method: SW5035A

Date Prep: 12.30.2020

Parent Sample Id: 683040-013

MS Sample Id: 683040-013 S

MSD Sample Id: 683040-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0986	99	0.0962	97	70-130	2	35	mg/kg	12.30.2020 20:25	
Toluene	<0.00200	0.0998	0.0963	96	0.0975	98	70-130	1	35	mg/kg	12.30.2020 20:25	
Ethylbenzene	<0.00200	0.0998	0.0899	90	0.0901	90	71-129	0	35	mg/kg	12.30.2020 20:25	
m,p-Xylenes	<0.00399	0.200	0.183	92	0.182	91	70-135	1	35	mg/kg	12.30.2020 20:25	
o-Xylene	<0.00200	0.0998	0.0902	90	0.0894	90	71-133	1	35	mg/kg	12.30.2020 20:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		95		70-130	%	12.30.2020 20:25
4-Bromofluorobenzene	86		87		70-130	%	12.30.2020 20:25

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: BTEX by EPA 8021B

Seq Number: 3146524

Parent Sample Id: 683040-033

Matrix: Soil

MS Sample Id: 683040-033 S

Prep Method: SW5035A

Date Prep: 12.30.2020

MSD Sample Id: 683040-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.0947	95	70-130	13	35	mg/kg	12.31.2020 08:08	
Toluene	<0.00200	0.100	0.103	103	0.0910	91	70-130	12	35	mg/kg	12.31.2020 08:08	
Ethylbenzene	<0.00200	0.100	0.0965	97	0.0844	84	71-129	13	35	mg/kg	12.31.2020 08:08	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.172	86	70-135	13	35	mg/kg	12.31.2020 08:08	
o-Xylene	<0.00200	0.100	0.0982	98	0.0859	86	71-133	13	35	mg/kg	12.31.2020 08:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		94		70-130	%	12.31.2020 08:08
4-Bromofluorobenzene	92		89		70-130	%	12.31.2020 08:08

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

683040

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: Lea County, NM		Project #: 212C-MD-02387	
Invoice to: EOG Todd Wells		Sample Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)		
		YEAR: 2020				WATER	SOIL	HCL	HNO ₃				ICE	None
	T-1 (0-1')			12/29/2020		X				X	N	BTEX 8021B BTEX 8260B		
	T-1 (1')			12/29/2020		X				X	N	TPH TX1005 (Ext to C35)		
	T-1 (2')			12/29/2020		X				X	N	TPH 8015M (GRO - DRO - ORO - MRO)		
	T-1 (3')			12/29/2020		X				X	N	PAH 8270C		
	T-1 (4')			12/29/2020		X				X	N	Total Metals Ag As Ba Cd Cr Pb Se Hg		
	T-2 (0-1')			12/29/2020		X				X	N	TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
	T-2 (1')			12/29/2020		X				X	N	TCLP Volatiles		
	T-2 (2')			12/29/2020		X				X	N	TCLP Semi Volatiles		
	T-2 (3')			12/29/2020		X				X	N	RCI		
	T-2 (4')			12/29/2020		X				X	N	GC/MS Vol. 8260B / 624		
												GC/MS Semi. Vol. 8270C/625		
												PCB's 8082 / 608		
												NORM		
												PLM (Asbestos)		
												Chloride 300.0		
												Chloride Sulfate TDS		
												General Water Chemistry (see attached list)		
												Anion/Cation Balance		
												TPH 8015R		
												Hold		

Relinquished by: <i>Erend Nancy</i>	Date: 12/30/20	Time: 15:00	Received by: <i>[Signature]</i>	Date: 12/30/20	Time: 15:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

2.8/2.6

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

301 West Wall Street, Ste
100 Midland, Texas 79701

Tel (432) 682-4559

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bear Booster

Project Location:
(county, state)

Lea County, NM

Project #:

212C-MD-02387

Invoice to:

EOG Todd Wells

Xenco

Sampler Signature:

Comments:

Ezequiel Moreno

[illegible]

ANALYSIS REQUEST

(Circle or specify Method No.)

Relinquished by: Ernest M. Smith Date: 12/30/20 Time: 15:00

Relinquished by: _____ Date: _____ Time: _____

Delinquished by: _____ Date: _____ Time: _____

Received by: [Signature] Date: 12/30/20 Time: 15:00

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature

$$\frac{2.8}{2.2}$$
REMARKS: ☐ S

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 #

683040

Page 2 of 5

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

301 West Wall Street, Ste
100 Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3948

683040

Page 3 of 5

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bear Booster

Project Location:
(county, state)

Lea County, NM

Project #:

212C-MD-02387

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)SAMPLING
YEAR 2020
DATE
TIMEMATRIX
WATER
SOIL
HCL
HNO₃
ICE
None

CONTAINERS

FILTERED (Y/N)

T-5 (2)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-5 (3)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-5 (4)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-6 (0-1)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-6 (1)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-7 (0-1)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-7 (1)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-7 (2)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

T-7 (3)

12/29/2020

X

X

X

1

N

X

X

X

X

X

X

X

X

X

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

12/30/20

15:00

12/30/20

15:00

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr

48 hr

72 hr

Special Report Limits or TRRP Report

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

2-8/2-6

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr

48 hr

72 hr

Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Custody Record



Tetra Tech, Inc.

 301 West Wall Street, Ste
100 Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-2946

683040

Page 4 of 5

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: Lea County, NM		Invoice to: EOG Todd Wells	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE				None
	T-7 (4')	12/29/2020		X							1	N	BTEX 8021B
	T-8 (0-1')	12/29/2020		X							1	N	TPH TX1005 (Ext to C35)
	T-8 (1')	12/29/2020		X							1	N	TPH 8015M (GRO - DRO - ORO - MRO)
	T-8 (2')	12/29/2020		X							1	N	PAH 8270C
	T-8 (3')	12/29/2020		X							1	N	Total Metals Ag As Ba Cd Cr Pb Se Hg
	T-9 (0-1')	12/29/2020		X							1	N	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	T-9 (1')	12/29/2020		X							1	N	TCLP Volatiles
	T-9 (2')	12/29/2020		X							1	N	TCLP Semi Volatiles
	T-9 (3')	12/29/2020		X							1	N	RCI
	T-9 (4')	12/29/2020		X							1	N	GC/MS Vol. 8260B / 624
				X							1	N	GC/MS Semi. Vol. 8270C/625
				X							1	N	PCB's 8082 / 608
				X							1	N	NORM
				X							1	N	PLM (Asbestos)
				X							1	N	Chloride 300.0
				X							1	N	Chloride Sulfate TDS
				X							1	N	General Water Chemistry (see attached list)
				X							1	N	Anion/Cation Balance
				X							1	N	TPH 8015R
				X							1	N	Hold

Relinquished by: <i>Hand Mung</i> 12/30/20 15:00	Received by: <i>[Signature]</i> 12/30/20 15:00
Relinquished by: _____	Received by: _____
Relinquished by: _____	Received by: _____

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

28/2.6

Sample Temperature

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 12.30.2020 03.00.00 PM

Work Order #: 683040

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)?	2.6
#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:



Martha Castro

Date: 12.30.2020

Checklist reviewed by:



Jessica Kramer

Date: 12.31.2020

Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-001	683730-002	683730-003	683730-004	683730-005	683730-006
	<i>Field Id:</i>	BH-1 (2')	BH-2 (2')	BH-3 (2')	BH-4 (2')	BH-5 (2')	BH-6 (2')
	<i>Depth:</i>	2- ft	2- ft	2- ft	2- ft	2- ft	2- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 14:45	01.07.2021 15:14	01.07.2021 15:37	01.07.2021 15:59	01.07.2021 16:21	01.07.2021 16:44
	<i>Units/RL:</i>	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	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398	<0.00403 0.00403	<0.00399 0.00399	<0.00399 0.00399	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00
	<i>Analyzed:</i>	01.07.2021 14:57	01.07.2021 15:14	01.07.2021 15:20	01.07.2021 15:26	01.07.2021 15:32	01.07.2021 15:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<9.94 9.94	13.1 9.98	<9.90 9.90	17.1 9.98	<10.0 10.0	<10.0 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00
	<i>Analyzed:</i>	01.07.2021 14:49	01.07.2021 15:50	01.07.2021 16:10	01.07.2021 16:30	01.07.2021 16:50	01.07.2021 17:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.1 50.1
Total TPH		<49.9 49.9	<50.0 50.0	<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.1 50.1

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-007	683730-008	683730-009	683730-010	683730-011	683730-012
	<i>Field Id:</i>	BH-7 (2')	BH-8 (2')	BH-9 (2')	BH-10 (2')	BH-11 (2')	BH-12 (2')
	<i>Depth:</i>	2- ft	2- ft	2- ft	2- ft	2- ft	2- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 17:06	01.07.2021 17:29	01.07.2021 17:51	01.07.2021 18:13	01.07.2021 19:33	01.07.2021 19:55
	<i>Units/RL:</i>	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	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00404 0.00404	<0.00399 0.00399	<0.00397 0.00397	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00
	<i>Analyzed:</i>	01.07.2021 15:56	01.07.2021 16:02	01.07.2021 16:08	01.07.2021 16:14	01.07.2021 16:20	01.07.2021 16:38
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<10.1 10.1	<9.98 9.98	<9.96 9.96	108 9.98	18.7 9.92	19.3 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00
	<i>Analyzed:</i>	01.07.2021 17:30	01.07.2021 17:50	01.07.2021 18:10	01.07.2021 18:31	01.07.2021 19:11	01.07.2021 19:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.3 50.3
Diesel Range Organics (DRO)		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.3 50.3
Total TPH		<50.1 50.1	<50.1 50.1	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.3 50.3

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-013	683730-014	683730-015	683730-016	683730-017	683730-018
	<i>Field Id:</i>	BH-13 (2')	BH-14 (1.5')	BH-15 (1.5')	BH-16 (1.5')	BH-17 (1.5')	BH-18 (1.5')
	<i>Depth:</i>	2- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 20:18	01.07.2021 20:40	01.07.2021 21:03	01.07.2021 21:25	01.07.2021 21:47	01.07.2021 22:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397	<0.00401 0.00401	<0.00403 0.00403
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 14:00
	<i>Analyzed:</i>	01.07.2021 16:44	01.07.2021 17:02	01.07.2021 17:08	01.07.2021 17:14	01.07.2021 17:20	01.07.2021 17:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<10.0 10.0	16.1 10.1	<9.98 9.98	13.1 10.0	<10.1 10.1	<10.0 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00
	<i>Analyzed:</i>	01.07.2021 19:51	01.07.2021 20:11	01.07.2021 20:31	01.07.2021 20:51	01.07.2021 21:12	01.07.2021 21:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.1 50.1	<50.1 50.1
Diesel Range Organics (DRO)		<50.3 50.3	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.1 50.1	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.1 50.1	<50.1 50.1
Total TPH		<50.3 50.3	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.1 50.1	<50.1 50.1

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-019	683730-020	683730-021	683730-022	683730-023	683730-024
	<i>Field Id:</i>	BH-19 (1.5')	BH-20 (1.5')	BH-21 (1.5')	BH-22 (1.5')	BH-23 (1.5')	BH-24 (1.5')
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 22:32	01.07.2021 22:55	01.07.2021 15:09	01.07.2021 15:31	01.07.2021 15:53	01.07.2021 16:16
	<i>Units/RL:</i>	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	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202
m,p-Xylenes		<0.00401 0.00401	<0.00403 0.00403	<0.00397 0.00397	<0.00399 0.00399	<0.00403 0.00403	<0.00404 0.00404
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 14:00	01.07.2021 14:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00
	<i>Analyzed:</i>	01.07.2021 17:32	01.07.2021 17:38	01.07.2021 18:14	01.07.2021 18:32	01.07.2021 18:38	01.07.2021 18:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		28.7 9.98	29.4 10.0	<9.92 9.92	12.3 9.92	16.5 9.98	39.1 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00
	<i>Analyzed:</i>	01.07.2021 21:53	01.07.2021 22:13	01.07.2021 14:49	01.07.2021 15:50	01.07.2021 16:10	01.07.2021 16:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.1 50.1
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.1 50.1
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.1 50.1

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-025	683730-026	683730-027	683730-028	683730-029	683730-030
	<i>Field Id:</i>	BH-25 (1.5')	BH-26 (1.5')	BH-27 (1')	BH-28 (1')	BH-29 (1')	BH-30 (1.5')
	<i>Depth:</i>	1.5- ft	1.5- ft	1- ft	1- ft	1- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.05.2021 00:00	01.06.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 16:38	01.07.2021 17:01	01.07.2021 17:23	01.07.2021 17:45	01.07.2021 18:08	01.07.2021 18:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00397 0.00397	<0.00399 0.00399	<0.00399 0.00399	<0.00401 0.00401	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00
	<i>Analyzed:</i>	01.07.2021 18:50	01.07.2021 19:08	01.07.2021 19:14	01.07.2021 19:20	01.07.2021 19:25	01.07.2021 19:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		13.3 10.1	28.6 9.98	11.4 9.96	11.3 9.98	11.2 9.96	46.5 9.96
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00
	<i>Analyzed:</i>	01.07.2021 16:50	01.07.2021 17:10	01.07.2021 17:30	01.07.2021 17:50	01.07.2021 18:10	01.07.2021 18:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-031	683730-032	683730-033	683730-034	683730-035	683730-036
	<i>Field Id:</i>	BH-31 (1.5')	BH-32 (1.5')	BH-33 (1.5')	BH-34 (1.5')	BH-35 (1.5')	BH-36 (1.5')
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00
	<i>Analyzed:</i>	01.07.2021 19:48	01.07.2021 20:10	01.07.2021 20:32	01.07.2021 20:55	01.07.2021 21:17	01.07.2021 21:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00400 0.00400	<0.00401 0.00401
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00
	<i>Analyzed:</i>	01.07.2021 19:37	01.07.2021 19:55	01.07.2021 20:01	01.07.2021 20:19	01.07.2021 20:25	01.07.2021 20:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		42.3 9.92	42.8 9.96	138 10.0	131 10.0	32.4 10.1	33.4 10.1
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00
	<i>Analyzed:</i>	01.07.2021 19:11	01.07.2021 19:31	01.07.2021 19:51	01.07.2021 20:11	01.07.2021 20:31	01.07.2021 20:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-037	683730-038	683730-039	683730-040	683730-041	683730-042
	<i>Field Id:</i>	BH-37 (1.5')	BH-38 (1.5')	BH-39 (1.5')	BH-40 (1.5')	BH-41 (1.5')	BH-42 (1.5')
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 11:00	01.07.2021 17:04	01.07.2021 17:04
	<i>Analyzed:</i>	01.07.2021 22:02	01.07.2021 22:24	01.07.2021 22:47	01.07.2021 23:09	01.08.2021 03:04	01.08.2021 03:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00401 0.00401	<0.00402 0.00402	<0.00397 0.00397	<0.00401 0.00401	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 16:00	01.07.2021 17:00	01.07.2021 17:00
	<i>Analyzed:</i>	01.07.2021 20:37	01.07.2021 20:43	01.07.2021 20:49	01.07.2021 20:55	01.07.2021 21:31	01.07.2021 21:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		38.6 9.94	20.3 9.98	18.6 9.98	13.3 10.0	11.5 9.90	22.1 9.98
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 12:00	01.07.2021 13:00	01.07.2021 13:00
	<i>Analyzed:</i>	01.07.2021 21:12	01.07.2021 21:32	01.07.2021 21:53	01.07.2021 22:13	01.07.2021 23:53	01.08.2021 00:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.1 50.1
Diesel Range Organics (DRO)		<50.2 50.2	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.1 50.1
Total TPH		<50.2 50.2	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.1 50.1

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-043	683730-044	683730-045	683730-046	683730-047	683730-048
	<i>Field Id:</i>	BH-43 (1.5')	BH-44 (1.5')	BH-45 (1.5')	BH-46 (1.5')	BH-47 (1.5')	BH-48 (1.5')
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04
	<i>Analyzed:</i>	01.08.2021 03:49	01.08.2021 04:11	01.08.2021 04:34	01.08.2021 04:56	01.08.2021 05:19	01.08.2021 05:41
	<i>Units/RL:</i>	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	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00400 0.00400	<0.00403 0.00403	<0.00401 0.00401	<0.00402 0.00402	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00
	<i>Analyzed:</i>	01.07.2021 21:55	01.07.2021 22:01	01.07.2021 22:07	01.07.2021 22:25	01.07.2021 22:31	01.07.2021 22:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		24.6 10.1	12.3 10.0	51.6 9.98	31.7 9.96	38.6 9.96	37.0 9.98
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00
	<i>Analyzed:</i>	01.08.2021 01:14	01.08.2021 01:34	01.08.2021 01:54	01.08.2021 02:14	01.08.2021 02:34	01.08.2021 02:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1	<49.8 49.8	<50.0 50.0	<50.4 50.4	<49.8 49.8
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1	<49.8 49.8	<50.0 50.0	<50.4 50.4	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1	<49.8 49.8	<50.0 50.0	<50.4 50.4	<49.8 49.8
Total TPH		<49.9 49.9	<50.1 50.1	<49.8 49.8	<50.0 50.0	<50.4 50.4	<49.8 49.8

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-049	683730-050	683730-051	683730-052	683730-053	683730-054
	<i>Field Id:</i>	BH-49 (1.5')	BH-50 (1.5')	BH-51 (1.5')	BH-52 (1.5')	BH-53 (1.5')	BH-54 (1.5')
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04
	<i>Analyzed:</i>	01.08.2021 06:04	01.08.2021 06:26	01.08.2021 07:46	01.08.2021 08:08	01.08.2021 08:31	01.08.2021 08:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00399 0.00399	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00402 0.00402	<0.00404 0.00404
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00
	<i>Analyzed:</i>	01.07.2021 22:43	01.07.2021 22:49	01.07.2021 22:55	01.07.2021 23:13	01.07.2021 23:18	01.07.2021 23:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		43.4 10.0	20.4 10.0	18.9 9.94	96.0 10.0	98.4 9.98	<9.96 9.96
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00
	<i>Analyzed:</i>	01.08.2021 03:14	01.08.2021 03:34	01.08.2021 04:14	01.08.2021 04:35	01.08.2021 04:54	01.08.2021 05:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<50.3 50.3	<49.8 49.8	<50.0 50.0	<50.1 50.1	<50.0 50.0
Diesel Range Organics (DRO)		<50.3 50.3	<50.3 50.3	<49.8 49.8	<50.0 50.0	<50.1 50.1	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.3 50.3	<49.8 49.8	<50.0 50.0	<50.1 50.1	<50.0 50.0
Total TPH		<50.3 50.3	<50.3 50.3	<49.8 49.8	<50.0 50.0	<50.1 50.1	<50.0 50.0

BRL - Below Reporting Limit

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Certificate of Analysis Summary 683730



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-055	683730-056	683730-057	683730-058	683730-059	683730-060
	<i>Field Id:</i>	BH-55 (1.5')	SW-1 (2')	SW-2 (2')	SW-3 (2')	SW-4 (1.5')	SW-5 (1.5')
	<i>Depth:</i>	1.5- ft	2- ft	2- ft	2- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04	01.07.2021 17:04
	<i>Analyzed:</i>	01.08.2021 09:16	01.08.2021 09:39	01.08.2021 10:01	01.08.2021 10:24	01.08.2021 10:46	01.08.2021 11:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00403 0.00403	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399	<0.00400 0.00400
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00
	<i>Analyzed:</i>	01.07.2021 23:42	01.07.2021 23:48	01.07.2021 23:54	01.08.2021 00:00	01.08.2021 00:06	01.08.2021 00:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<9.92 9.92	15.6 9.98	15.8 10.1	<10.0 10.0	20.4 9.94	<9.98 9.98
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00	01.07.2021 13:00
	<i>Analyzed:</i>	01.08.2021 05:34	01.08.2021 05:54	01.08.2021 06:14	01.08.2021 06:34	01.08.2021 06:54	01.08.2021 07:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.1 50.1	<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.1 50.1	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.1 50.1	<50.1 50.1
Total TPH		<49.9 49.9	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.1 50.1	<50.1 50.1

BRL - Below Reporting Limit

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



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 01.07.2021 08:27
Report Date: 01.11.2021 07:54
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	683730-061	683730-062	683730-063	683730-064	683730-065	
	<i>Field Id:</i>	SW-6 (1.5')	SW-7 (1.5')	SW-8 (1.5')	SW-9 (1.5')	SW-10 (1.5')	
	<i>Depth:</i>	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	01.06.2021 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	01.07.2021 17:30	01.07.2021 17:30	01.07.2021 17:30	01.07.2021 17:30	01.07.2021 17:30	
	<i>Analyzed:</i>	01.08.2021 02:51	01.08.2021 03:14	01.08.2021 03:36	01.08.2021 03:58	01.08.2021 04:21	
	<i>Units/RL:</i>	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	<0.00200 0.00200	<0.00200 0.00200	
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00400 0.00400	<0.00399 0.00399	<0.00401 0.00401	
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	
	<i>Analyzed:</i>	01.08.2021 00:48	01.08.2021 01:06	01.08.2021 01:12	01.08.2021 01:18	01.08.2021 01:24	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		78.4 9.92	19.1 9.98	16.0 10.1	105 10.1	19.0 10.0	
TPH By SW8015 Mod	<i>Extracted:</i>	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	01.07.2021 17:00	
	<i>Analyzed:</i>	01.07.2021 23:53	01.08.2021 00:54	01.08.2021 01:14	01.08.2021 01:34	01.08.2021 01:54	
	<i>Units/RL:</i>	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	<50.1 50.1	<49.9 49.9	<50.2 50.2	
Diesel Range Organics (DRO)		<49.9 49.9	<50.1 50.1	<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	<50.1 50.1	<49.9 49.9	<50.2 50.2	
Total TPH		<49.9 49.9	<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.2 50.2	

BRL - Below Reporting Limit

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



Analytical Report 683730

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Bear Booster

212C-MD-02387

01.11.2021

Collected By: Client

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

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

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

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



01.11.2021

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **683730**

Bear Booster

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 683730. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 683730 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (2')	S	01.05.2021 00:00	2 ft	683730-001
BH-2 (2')	S	01.05.2021 00:00	2 ft	683730-002
BH-3 (2')	S	01.05.2021 00:00	2 ft	683730-003
BH-4 (2')	S	01.05.2021 00:00	2 ft	683730-004
BH-5 (2')	S	01.05.2021 00:00	2 ft	683730-005
BH-6 (2')	S	01.05.2021 00:00	2 ft	683730-006
BH-7 (2')	S	01.05.2021 00:00	2 ft	683730-007
BH-8 (2')	S	01.05.2021 00:00	2 ft	683730-008
BH-9 (2')	S	01.05.2021 00:00	2 ft	683730-009
BH-10 (2')	S	01.05.2021 00:00	2 ft	683730-010
BH-11 (2')	S	01.05.2021 00:00	2 ft	683730-011
BH-12 (2')	S	01.05.2021 00:00	2 ft	683730-012
BH-13 (2')	S	01.05.2021 00:00	2 ft	683730-013
BH-14 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-014
BH-15 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-015
BH-16 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-016
BH-17 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-017
BH-18 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-018
BH-19 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-019
BH-20 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-020
BH-21 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-021
BH-22 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-022
BH-23 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-023
BH-24 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-024
BH-25 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-025
BH-26 (1.5')	S	01.05.2021 00:00	1.5 ft	683730-026
BH-27 (1')	S	01.05.2021 00:00	1 ft	683730-027
BH-28 (1')	S	01.05.2021 00:00	1 ft	683730-028
BH-29 (1')	S	01.05.2021 00:00	1 ft	683730-029
BH-30 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-030
BH-31 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-031
BH-32 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-032
BH-33 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-033
BH-34 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-034
BH-35 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-035
BH-36 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-036
BH-37 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-037
BH-38 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-038
BH-39 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-039
BH-40 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-040
BH-41 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-041
BH-42 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-042
BH-43 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-043



Sample Cross Reference 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

BH-44 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-044
BH-45 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-045
BH-46 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-046
BH-47 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-047
BH-48 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-048
BH-49 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-049
BH-50 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-050
BH-51 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-051
BH-52 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-052
BH-53 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-053
BH-54 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-054
BH-55 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-055
SW-1 (2')	S	01.06.2021 00:00	2 ft	683730-056
SW-2 (2')	S	01.06.2021 00:00	2 ft	683730-057
SW-3 (2')	S	01.06.2021 00:00	2 ft	683730-058
SW-4 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-059
SW-5 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-060
SW-6 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-061
SW-7 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-062
SW-8 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-063
SW-9 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-064
SW-10 (1.5')	S	01.06.2021 00:00	1.5 ft	683730-065



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Bear Booster

Project ID: 212C-MD-02387
Work Order Number(s): 683730

Report Date: 01.11.2021
Date Received: 01.07.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-1 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-001 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	01.07.2021 14:57	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 14:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 14:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 14:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 14:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	01.07.2021 14:49	
o-Terphenyl	84-15-1	105	%	70-135	01.07.2021 14:49	



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-1 (2')**
Lab Sample Id: 683730-001

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 14:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 14:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 14:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 14:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 14:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 14:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 14:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.07.2021 14:45	
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.07.2021 14:45	



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-2 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-002 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.1	9.98	mg/kg	01.07.2021 15:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 15:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 15:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	123	%	70-135	01.07.2021 15:50		
o-Terphenyl	84-15-1	112	%	70-135	01.07.2021 15:50		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-2 (2')**
Lab Sample Id: 683730-002

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 15:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 15:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 15:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 15:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 15:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 15:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 15:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	01.07.2021 15:14		
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 15:14		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-3 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-003 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.90	9.90	mg/kg	01.07.2021 15:20	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 16:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 16:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 16:10	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 16:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	01.07.2021 16:10	
o-Terphenyl	84-15-1	105	%	70-135	01.07.2021 16:10	



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-3 (2')**
Lab Sample Id: 683730-003

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 15:37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 15:37	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 15:37	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.07.2021 15:37	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 15:37	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 15:37	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 15:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	01.07.2021 15:37		
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.07.2021 15:37		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-4 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-004 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.1	9.98	mg/kg	01.07.2021 15:26		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	127	%	70-135	01.07.2021 16:30		
o-Terphenyl	84-15-1	106	%	70-135	01.07.2021 16:30		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-4 (2')**
Lab Sample Id: 683730-004

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 15:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 15:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 15:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 15:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 15:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 15:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 15:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.07.2021 15:59		
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.07.2021 15:59		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-5 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-005 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	01.07.2021 15:32	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	01.07.2021 16:50	
o-Terphenyl	84-15-1	101	%	70-135	01.07.2021 16:50	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-5 (2')**
Lab Sample Id: 683730-005

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 16:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 16:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 16:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 16:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 16:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 16:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 16:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.07.2021 16:21	
1,4-Difluorobenzene	540-36-3	110	%	70-130	01.07.2021 16:21	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-6 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-006 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	01.07.2021 15:51	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 17:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 17:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 17:10	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 17:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	01.07.2021 17:10	
o-Terphenyl	84-15-1	116	%	70-135	01.07.2021 17:10	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-6 (2')**
Lab Sample Id: 683730-006

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 16:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 16:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 16:44	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 16:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 16:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 16:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 16:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.07.2021 16:44	
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.07.2021 16:44	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-7 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-007 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	01.07.2021 15:56	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 17:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 17:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 17:30	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 17:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.07.2021 17:30	
o-Terphenyl	84-15-1	122	%	70-135	01.07.2021 17:30	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-7 (2')**
Lab Sample Id: 683730-007

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 17:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 17:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 17:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 17:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 17:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 17:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 17:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.07.2021 17:06		
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.07.2021 17:06		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-8 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-008 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	01.07.2021 16:02	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 17:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 17:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 17:50	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 17:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	01.07.2021 17:50	
o-Terphenyl	84-15-1	118	%	70-135	01.07.2021 17:50	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-8 (2')**
Lab Sample Id: 683730-008

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 17:29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 17:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 17:29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 17:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 17:29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 17:29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 17:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.07.2021 17:29	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.07.2021 17:29	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-9 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-009 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	01.07.2021 16:08	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	01.07.2021 18:10		
o-Terphenyl	84-15-1	106	%	70-135	01.07.2021 18:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-9 (2')**
Lab Sample Id: 683730-009

Matrix: Soil
Date Collected: 01.05.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 17:51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 17:51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 17:51	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.07.2021 17:51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 17:51	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 17:51	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.07.2021 17:51	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.07.2021 17:51	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-10 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-010 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	9.98	mg/kg	01.07.2021 16:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 18:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 18:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.07.2021 18:31		
o-Terphenyl	84-15-1	118	%	70-135	01.07.2021 18:31		



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Bear Booster

Sample Id: **BH-10 (2')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-010

Date Collected: 01.05.2021 00:00

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 18:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 18:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 18:13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 18:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 18:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 18:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.07.2021 18:13	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.07.2021 18:13	



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Bear Booster

Sample Id: **BH-11 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-011 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.7	9.92	mg/kg	01.07.2021 16:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 19:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 19:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 19:11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 19:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-135	01.07.2021 19:11		
o-Terphenyl	84-15-1	97	%	70-135	01.07.2021 19:11		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-11 (2')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-011

Date Collected: 01.05.2021 00:00

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 19:33	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 19:33	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 19:33	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 19:33	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 19:33	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 19:33	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 19:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.07.2021 19:33	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.07.2021 19:33	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-12 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-012 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.3	10.0	mg/kg	01.07.2021 16:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.07.2021 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.07.2021 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.07.2021 19:31	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.07.2021 19:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.07.2021 19:31		
o-Terphenyl	84-15-1	103	%	70-135	01.07.2021 19:31		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-12 (2')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-012

Date Collected: 01.05.2021 00:00

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 19:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 19:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 19:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 19:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 19:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 19:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 19:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.07.2021 19:55	
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.07.2021 19:55	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-13 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-013 Date Collected: 01.05.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	01.07.2021 16:44	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.07.2021 19:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.07.2021 19:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.07.2021 19:51	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.07.2021 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	01.07.2021 19:51	
o-Terphenyl	84-15-1	111	%	70-135	01.07.2021 19:51	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-13 (2')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-013

Date Collected: 01.05.2021 00:00

Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 20:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 20:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 20:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 20:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 20:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 20:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 20:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.07.2021 20:18		
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.07.2021 20:18		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-14 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-014 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.1	10.1	mg/kg	01.07.2021 17:02		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 20:11	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 20:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	01.07.2021 20:11		
o-Terphenyl	84-15-1	97	%	70-135	01.07.2021 20:11		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-14 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-014

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 20:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 20:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 20:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 20:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 20:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 20:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 20:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.07.2021 20:40		
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.07.2021 20:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-15 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-015 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	01.07.2021 17:08	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 20:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 20:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 20:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 20:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.07.2021 20:31	
o-Terphenyl	84-15-1	110	%	70-135	01.07.2021 20:31	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-15 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-015

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 21:03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 21:03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 21:03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 21:03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 21:03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 21:03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 21:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.07.2021 21:03	
4-Bromofluorobenzene	460-00-4	125	%	70-130	01.07.2021 21:03	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-16 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-016 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.1	10.0	mg/kg	01.07.2021 17:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	01.07.2021 20:51		
o-Terphenyl	84-15-1	98	%	70-135	01.07.2021 20:51		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-16 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-016

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 21:25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 21:25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 21:25	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 21:25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 21:25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 21:25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 21:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.07.2021 21:25	
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.07.2021 21:25	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-17 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-017 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	01.07.2021 17:20	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 21:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 21:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 21:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 21:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	01.07.2021 21:12	
o-Terphenyl	84-15-1	116	%	70-135	01.07.2021 21:12	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-17 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-017

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 21:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 21:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 21:47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 21:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 21:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 21:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 21:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.07.2021 21:47	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.07.2021 21:47	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-18 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-018 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	01.07.2021 17:26	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 21:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 21:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 21:32	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 21:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	01.07.2021 21:32	
o-Terphenyl	84-15-1	106	%	70-135	01.07.2021 21:32	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-18 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-018

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 22:10	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 22:10	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 22:10	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.07.2021 22:10	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 22:10	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 22:10	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 22:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.07.2021 22:10		
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.07.2021 22:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-19 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-019 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.7	9.98	mg/kg	01.07.2021 17:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 21:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 21:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	01.07.2021 21:53		
o-Terphenyl	84-15-1	98	%	70-135	01.07.2021 21:53		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-19 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-019

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147106

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 22:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 22:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 22:32	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 22:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 22:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 22:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 22:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.07.2021 22:32		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.07.2021 22:32		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-20 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-020 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 14:00 % Moisture:
 Seq Number: 3147119 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.4	10.0	mg/kg	01.07.2021 17:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147113 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 22:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 22:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 22:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 22:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.07.2021 22:13	
o-Terphenyl	84-15-1	114	%	70-135	01.07.2021 22:13	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-20 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-020

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147106

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 22:55	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 22:55	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 22:55	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.07.2021 22:55	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 22:55	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 22:55	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 22:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.07.2021 22:55		
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.07.2021 22:55		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-21 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-021 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92	mg/kg	01.07.2021 18:14	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 14:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 14:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 14:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 14:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	01.07.2021 14:49	
o-Terphenyl	84-15-1	109	%	70-135	01.07.2021 14:49	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-21 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-021

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 15:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 15:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 15:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 15:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 15:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 15:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 15:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	01.07.2021 15:09		
4-Bromofluorobenzene	460-00-4	90	%	70-130	01.07.2021 15:09		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-22 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-022 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.3	9.92	mg/kg	01.07.2021 18:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 15:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 15:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	01.07.2021 15:50		
o-Terphenyl	84-15-1	116	%	70-135	01.07.2021 15:50		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-22 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-022

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 15:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 15:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 15:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 15:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 15:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 15:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 15:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.07.2021 15:31	
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.07.2021 15:31	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-23 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-023 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.5	9.98	mg/kg	01.07.2021 18:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 16:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 16:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 16:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 16:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.07.2021 16:10		
o-Terphenyl	84-15-1	99	%	70-135	01.07.2021 16:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-23 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-023

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 15:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 15:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 15:53	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.07.2021 15:53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 15:53	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 15:53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 15:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.07.2021 15:53		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 15:53		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-24 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-024 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.1	10.0	mg/kg	01.07.2021 18:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 16:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	01.07.2021 16:30		
o-Terphenyl	84-15-1	99	%	70-135	01.07.2021 16:30		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-24 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-024

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.07.2021 16:16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.07.2021 16:16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.07.2021 16:16	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.07.2021 16:16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.07.2021 16:16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.07.2021 16:16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.07.2021 16:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.07.2021 16:16		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 16:16		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-25 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-025 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.3	10.1	mg/kg	01.07.2021 18:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 16:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-135	01.07.2021 16:50		
o-Terphenyl	84-15-1	90	%	70-135	01.07.2021 16:50		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-25 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-025

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 16:38	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 16:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 16:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 16:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 16:38	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 16:38	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 16:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 16:38		
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.07.2021 16:38		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-26 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-026 Date Collected: 01.05.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.6	9.98	mg/kg	01.07.2021 19:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 17:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 17:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 17:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 17:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	01.07.2021 17:10		
o-Terphenyl	84-15-1	108	%	70-135	01.07.2021 17:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-26 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-026

Date Collected: 01.05.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 17:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 17:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 17:01	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 17:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 17:01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 17:01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 17:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	01.07.2021 17:01	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.07.2021 17:01	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-27 (1')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-027 Date Collected: 01.05.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.4	9.96	mg/kg	01.07.2021 19:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 17:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 17:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 17:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 17:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	133	%	70-135	01.07.2021 17:30		
o-Terphenyl	84-15-1	114	%	70-135	01.07.2021 17:30		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-27 (1')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-027

Date Collected: 01.05.2021 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 17:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 17:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 17:23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 17:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 17:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 17:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 17:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.07.2021 17:23		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 17:23		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-28 (1')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-028 Date Collected: 01.05.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.3	9.98	mg/kg	01.07.2021 19:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 17:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 17:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 17:50	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 17:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	01.07.2021 17:50	
o-Terphenyl	84-15-1	101	%	70-135	01.07.2021 17:50	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-28 (1')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-028

Date Collected: 01.05.2021 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 17:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 17:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 17:45	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 17:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 17:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 17:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 17:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.07.2021 17:45		
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 17:45		



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Bear Booster

Sample Id: **BH-29 (1')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-029 Date Collected: 01.05.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.2	9.96	mg/kg	01.07.2021 19:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 18:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	01.07.2021 18:10		
o-Terphenyl	84-15-1	103	%	70-135	01.07.2021 18:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-29 (1')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-029

Date Collected: 01.05.2021 00:00

Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 18:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 18:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 18:08	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 18:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 18:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 18:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 18:08	
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.07.2021 18:08	



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Bear Booster

Sample Id: **BH-30 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-030 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.5	9.96	mg/kg	01.07.2021 19:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 18:31	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 18:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	101	%	70-135	01.07.2021 18:31		
o-Terphenyl	84-15-1	114	%	70-135	01.07.2021 18:31		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-30 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-030

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 18:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 18:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 18:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 18:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 18:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 18:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 18:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 18:30		
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.07.2021 18:30		



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Bear Booster

Sample Id: **BH-31 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-031 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.3	9.92	mg/kg	01.07.2021 19:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 19:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 19:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 19:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 19:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	01.07.2021 19:11	
o-Terphenyl	84-15-1	118	%	70-135	01.07.2021 19:11	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-31 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-031

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 19:48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 19:48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 19:48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 19:48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 19:48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 19:48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 19:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.07.2021 19:48		
4-Bromofluorobenzene	460-00-4	88	%	70-130	01.07.2021 19:48		



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Bear Booster

Sample Id: **BH-32 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-032 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	42.8	9.96	mg/kg	01.07.2021 19:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 19:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 19:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	01.07.2021 19:31		
o-Terphenyl	84-15-1	105	%	70-135	01.07.2021 19:31		



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Bear Booster

Sample Id: **BH-32 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-032

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147107

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 20:10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 20:10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 20:10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 20:10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 20:10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 20:10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 20:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	01.07.2021 20:10		
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 20:10		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-33 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-033 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	138	10.0	mg/kg	01.07.2021 20:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 19:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 19:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 19:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 19:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	01.07.2021 19:51		
o-Terphenyl	84-15-1	109	%	70-135	01.07.2021 19:51		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-33 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-033

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 20:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 20:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 20:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.07.2021 20:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 20:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 20:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 20:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 20:32		
4-Bromofluorobenzene	460-00-4	91	%	70-130	01.07.2021 20:32		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-34 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-034 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	10.0	mg/kg	01.07.2021 20:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 20:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 20:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 20:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 20:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	01.07.2021 20:11	
o-Terphenyl	84-15-1	99	%	70-135	01.07.2021 20:11	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-34 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-034

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.07.2021 20:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.07.2021 20:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.07.2021 20:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.07.2021 20:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.07.2021 20:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.07.2021 20:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.07.2021 20:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 20:55	
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.07.2021 20:55	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-35 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-035 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.4	10.1	mg/kg	01.07.2021 20:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 20:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.07.2021 20:31		
o-Terphenyl	84-15-1	116	%	70-135	01.07.2021 20:31		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-35 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-035

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 21:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 21:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 21:17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.07.2021 21:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 21:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 21:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 21:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	01.07.2021 21:17		
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.07.2021 21:17		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-36 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-036 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.4	10.1	mg/kg	01.07.2021 20:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.07.2021 20:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	01.07.2021 20:51	
o-Terphenyl	84-15-1	109	%	70-135	01.07.2021 20:51	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-36 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-036

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 21:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 21:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 21:40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 21:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 21:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 21:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 21:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.07.2021 21:40		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 21:40		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-37 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-037

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 16:00

% Moisture:

Seq Number: 3147121

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.6	9.94	mg/kg	01.07.2021 20:37		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.07.2021 12:00

% Moisture:

Seq Number: 3147114

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.07.2021 21:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.07.2021 21:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.07.2021 21:12	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.07.2021 21:12	U	1

Surrogate

1-Chlorooctane

Cas Number 111-85-3

% Recovery 115

Units %

Limits 70-135

Analysis Date 01.07.2021 21:12

Flag

o-Terphenyl

Cas Number 84-15-1

% Recovery 102

Units %

Limits 70-135

Analysis Date 01.07.2021 21:12



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-37 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-037

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 22:02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 22:02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 22:02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 22:02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 22:02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 22:02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 22:02	
4-Bromofluorobenzene	460-00-4	94	%	70-130	01.07.2021 22:02	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-38 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-038 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.3	9.98	mg/kg	01.07.2021 20:43		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 21:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 21:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 21:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 21:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	01.07.2021 21:32		
o-Terphenyl	84-15-1	101	%	70-135	01.07.2021 21:32		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-38 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-038

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.07.2021 22:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.07.2021 22:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.07.2021 22:24	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.07.2021 22:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.07.2021 22:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.07.2021 22:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.07.2021 22:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	01.07.2021 22:24		
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.07.2021 22:24		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-39 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-039 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.6	9.98	mg/kg	01.07.2021 20:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.07.2021 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.07.2021 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.07.2021 21:53	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.07.2021 21:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	01.07.2021 21:53		
o-Terphenyl	84-15-1	112	%	70-135	01.07.2021 21:53		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-39 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-039

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.07.2021 22:47	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.07.2021 22:47	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.07.2021 22:47	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.07.2021 22:47	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.07.2021 22:47	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.07.2021 22:47	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.07.2021 22:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 22:47		
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.07.2021 22:47		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-40 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-040 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 16:00 % Moisture:
 Seq Number: 3147121 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.3	10.0	mg/kg	01.07.2021 20:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 12:00 % Moisture:
 Seq Number: 3147114 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.07.2021 22:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.07.2021 22:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.07.2021 22:13	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.07.2021 22:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	01.07.2021 22:13		
o-Terphenyl	84-15-1	107	%	70-135	01.07.2021 22:13		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-40 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-040

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 11:00

% Moisture:

Seq Number: 3147107

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.07.2021 23:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.07.2021 23:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.07.2021 23:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.07.2021 23:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.07.2021 23:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.07.2021 23:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.07.2021 23:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	01.07.2021 23:09	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.07.2021 23:09	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-41 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-041 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.5	9.90	mg/kg	01.07.2021 21:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.07.2021 23:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.07.2021 23:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.07.2021 23:53	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.07.2021 23:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	01.07.2021 23:53		
o-Terphenyl	84-15-1	104	%	70-135	01.07.2021 23:53		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-41 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-041

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 03:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 03:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 03:04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.08.2021 03:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 03:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 03:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 03:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	01.08.2021 03:04		
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.08.2021 03:04		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-42 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-042 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.1	9.98	mg/kg	01.07.2021 21:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.08.2021 00:54		
o-Terphenyl	84-15-1	117	%	70-135	01.08.2021 00:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-42 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-042

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.08.2021 03:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.08.2021 03:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.08.2021 03:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.08.2021 03:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.08.2021 03:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.08.2021 03:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.08.2021 03:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.08.2021 03:26		
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.08.2021 03:26		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-43 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-043 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.6	10.1	mg/kg	01.07.2021 21:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 01:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.08.2021 01:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 01:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.08.2021 01:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.08.2021 01:14	
o-Terphenyl	84-15-1	107	%	70-135	01.08.2021 01:14	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-43 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-043

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 03:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 03:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 03:49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 03:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 03:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 03:49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 03:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.08.2021 03:49		
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.08.2021 03:49		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-44 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-044 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.3	10.0	mg/kg	01.07.2021 22:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 01:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 01:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 01:34	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 01:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	122	%	70-135	01.08.2021 01:34		
o-Terphenyl	84-15-1	99	%	70-135	01.08.2021 01:34		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-44 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-044

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 04:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 04:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 04:11	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.08.2021 04:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 04:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 04:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 04:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.08.2021 04:11	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.08.2021 04:11	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-45 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-045 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.6	9.98	mg/kg	01.07.2021 22:07		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 01:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.08.2021 01:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 01:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.08.2021 01:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	125	%	70-135	01.08.2021 01:54		
o-Terphenyl	84-15-1	117	%	70-135	01.08.2021 01:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-45 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-045

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.08.2021 04:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.08.2021 04:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.08.2021 04:34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.08.2021 04:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.08.2021 04:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.08.2021 04:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.08.2021 04:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	126	%	70-130	01.08.2021 04:34		
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.08.2021 04:34		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-46 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-046 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.7	9.96	mg/kg	01.07.2021 22:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 02:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 02:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 02:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 02:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	131	%	70-135	01.08.2021 02:14	
o-Terphenyl	84-15-1	118	%	70-135	01.08.2021 02:14	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-46 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-046

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 04:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 04:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 04:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.08.2021 04:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 04:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 04:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 04:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.08.2021 04:56		
4-Bromofluorobenzene	460-00-4	125	%	70-130	01.08.2021 04:56		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-47 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-047 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.6	9.96	mg/kg	01.07.2021 22:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.4	50.4	mg/kg	01.08.2021 02:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.4	50.4	mg/kg	01.08.2021 02:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.4	50.4	mg/kg	01.08.2021 02:34	U	1
Total TPH	PHC635	<50.4	50.4	mg/kg	01.08.2021 02:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	01.08.2021 02:34		
o-Terphenyl	84-15-1	111	%	70-135	01.08.2021 02:34		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-47 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-047

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.08.2021 05:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.08.2021 05:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.08.2021 05:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.08.2021 05:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.08.2021 05:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.08.2021 05:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.08.2021 05:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.08.2021 05:19		
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.08.2021 05:19		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-48 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-048 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.0	9.98	mg/kg	01.07.2021 22:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 02:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.08.2021 02:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 02:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.08.2021 02:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	123	%	70-135	01.08.2021 02:54		
o-Terphenyl	84-15-1	109	%	70-135	01.08.2021 02:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-48 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-048

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 05:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 05:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 05:41	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 05:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 05:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 05:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 05:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.08.2021 05:41		
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.08.2021 05:41		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-49 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-049

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:00

% Moisture:

Seq Number: 3147123

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.4	10.0	mg/kg	01.07.2021 22:43		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.07.2021 13:00

% Moisture:

Seq Number: 3147115

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.08.2021 03:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.08.2021 03:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.08.2021 03:14	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.08.2021 03:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.08.2021 03:14	
o-Terphenyl	84-15-1	122	%	70-135	01.08.2021 03:14	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-49 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-049

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 06:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 06:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 06:04	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 06:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 06:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 06:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 06:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.08.2021 06:04		
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.08.2021 06:04		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-50 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-050 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.4	10.0	mg/kg	01.07.2021 22:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.08.2021 03:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.08.2021 03:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.08.2021 03:34	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.08.2021 03:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-135	01.08.2021 03:34		
o-Terphenyl	84-15-1	105	%	70-135	01.08.2021 03:34		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-50 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-050

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.08.2021 06:26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.08.2021 06:26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.08.2021 06:26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.08.2021 06:26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.08.2021 06:26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.08.2021 06:26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.08.2021 06:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.08.2021 06:26		
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.08.2021 06:26		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-51 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-051 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.9	9.94	mg/kg	01.07.2021 22:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 04:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.08.2021 04:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 04:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.08.2021 04:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	01.08.2021 04:14		
o-Terphenyl	84-15-1	122	%	70-135	01.08.2021 04:14		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-51 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-051

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 07:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 07:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 07:46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 07:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 07:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 07:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 07:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.08.2021 07:46	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.08.2021 07:46	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-52 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-052 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.0	10.0	mg/kg	01.07.2021 23:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 04:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 04:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 04:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 04:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	123	%	70-135	01.08.2021 04:35		
o-Terphenyl	84-15-1	99	%	70-135	01.08.2021 04:35		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-52 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-052

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.08.2021 08:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.08.2021 08:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.08.2021 08:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.08.2021 08:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.08.2021 08:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.08.2021 08:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.08.2021 08:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.08.2021 08:08		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.08.2021 08:08		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-53 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-053 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	98.4	9.98	mg/kg	01.07.2021 23:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 04:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 04:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 04:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 04:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.08.2021 04:54		
o-Terphenyl	84-15-1	126	%	70-135	01.08.2021 04:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-53 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-053

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.08.2021 08:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.08.2021 08:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.08.2021 08:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.08.2021 08:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.08.2021 08:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.08.2021 08:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.08.2021 08:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.08.2021 08:31	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.08.2021 08:31	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-54 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-054

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147123

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	01.07.2021 23:36	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.07.2021 13:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147115

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.08.2021 05:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.08.2021 05:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.08.2021 05:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.08.2021 05:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.08.2021 05:14	
o-Terphenyl	84-15-1	105	%	70-135	01.08.2021 05:14	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-54 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-054

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.08.2021 08:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.08.2021 08:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.08.2021 08:53	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.08.2021 08:53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.08.2021 08:53	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.08.2021 08:53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.08.2021 08:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.08.2021 08:53		
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.08.2021 08:53		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-55 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-055 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.92	9.92	mg/kg	01.07.2021 23:42	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 05:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.08.2021 05:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 05:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.08.2021 05:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	01.08.2021 05:34	
o-Terphenyl	84-15-1	109	%	70-135	01.08.2021 05:34	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-55 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-055

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.08.2021 09:16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.08.2021 09:16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.08.2021 09:16	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.08.2021 09:16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.08.2021 09:16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.08.2021 09:16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.08.2021 09:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	128	%	70-130	01.08.2021 09:16		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.08.2021 09:16		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-1 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-056 Date Collected: 01.06.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.6	9.98	mg/kg	01.07.2021 23:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 05:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 05:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 05:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 05:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	01.08.2021 05:54		
o-Terphenyl	84-15-1	114	%	70-135	01.08.2021 05:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-1 (2')**
Lab Sample Id: 683730-056

Matrix: Soil
Date Collected: 01.06.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3147109

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 09:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 09:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 09:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 09:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 09:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 09:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 09:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.08.2021 09:39		
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.08.2021 09:39		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-2 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-057 Date Collected: 01.06.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.8	10.1	mg/kg	01.07.2021 23:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 06:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.08.2021 06:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 06:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.08.2021 06:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	124	%	70-135	01.08.2021 06:14		
o-Terphenyl	84-15-1	116	%	70-135	01.08.2021 06:14		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-2 (2')**
Lab Sample Id: 683730-057

Matrix: Soil
Date Collected: 01.06.2021 00:00

Date Received: 01.07.2021 08:27
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3147109

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.08.2021 10:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.08.2021 10:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.08.2021 10:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.08.2021 10:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.08.2021 10:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.08.2021 10:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.08.2021 10:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.08.2021 10:01		
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.08.2021 10:01		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-3 (2')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-058 Date Collected: 01.06.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	01.08.2021 00:00	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.08.2021 06:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.08.2021 06:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.08.2021 06:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.08.2021 06:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	01.08.2021 06:34	
o-Terphenyl	84-15-1	115	%	70-135	01.08.2021 06:34	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-3 (2')**
 Lab Sample Id: 683730-058

Matrix: Soil
 Date Collected: 01.06.2021 00:00

Date Received: 01.07.2021 08:27
 Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:
 Basis: Wet Weight

Seq Number: 3147109

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.08.2021 10:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.08.2021 10:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.08.2021 10:24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.08.2021 10:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.08.2021 10:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.08.2021 10:24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.08.2021 10:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.08.2021 10:24		
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.08.2021 10:24		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-4 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-059 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.4	9.94	mg/kg	01.08.2021 00:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 06:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 06:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 06:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 06:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.08.2021 06:54		
o-Terphenyl	84-15-1	118	%	70-135	01.08.2021 06:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-4 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-059

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 10:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 10:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 10:46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 10:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 10:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 10:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 10:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.08.2021 10:46		
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.08.2021 10:46		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-5 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-060 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147123 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	01.08.2021 00:12	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 13:00 % Moisture:
 Seq Number: 3147115 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 07:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 07:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 07:14	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 07:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.08.2021 07:14	
o-Terphenyl	84-15-1	106	%	70-135	01.08.2021 07:14	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-5 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-060

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:04

% Moisture:

Seq Number: 3147109

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 11:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 11:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 11:09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.08.2021 11:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 11:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 11:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 11:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.08.2021 11:09	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.08.2021 11:09	



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Bear Booster

Sample Id: **SW-6 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-061 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147124 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.4	9.92	mg/kg	01.08.2021 00:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147117 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.07.2021 23:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.07.2021 23:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.07.2021 23:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.07.2021 23:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	01.07.2021 23:53		
o-Terphenyl	84-15-1	110	%	70-135	01.07.2021 23:53		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-6 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-061

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3147110

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.08.2021 02:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.08.2021 02:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.08.2021 02:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.08.2021 02:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.08.2021 02:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.08.2021 02:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.08.2021 02:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.08.2021 02:51		
4-Bromofluorobenzene	460-00-4	86	%	70-130	01.08.2021 02:51		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-7 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-062 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147124 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.1	9.98	mg/kg	01.08.2021 01:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147117 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 00:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	01.08.2021 00:54	
o-Terphenyl	84-15-1	104	%	70-135	01.08.2021 00:54	



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-7 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-062

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:30

% Moisture:

Seq Number: 3147110

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.08.2021 03:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.08.2021 03:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.08.2021 03:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.08.2021 03:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.08.2021 03:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.08.2021 03:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.08.2021 03:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.08.2021 03:14		
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.08.2021 03:14		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-8 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-063 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147124 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.0	10.1	mg/kg	01.08.2021 01:12		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147117 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.08.2021 01:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.08.2021 01:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.08.2021 01:14	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.08.2021 01:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	01.08.2021 01:14	
o-Terphenyl	84-15-1	120	%	70-135	01.08.2021 01:14	



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-8 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-063

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3147110

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 03:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 03:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 03:36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.08.2021 03:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 03:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 03:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 03:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	01.08.2021 03:36		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.08.2021 03:36		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-9 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-064 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147124 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	10.1	mg/kg	01.08.2021 01:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147117 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.08.2021 01:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.08.2021 01:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.08.2021 01:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.08.2021 01:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.08.2021 01:34	
o-Terphenyl	84-15-1	106	%	70-135	01.08.2021 01:34	



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-9 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-064

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:30

% Moisture:
Basis: Wet Weight

Seq Number: 3147110

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 03:58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 03:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 03:58	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.08.2021 03:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 03:58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 03:58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 03:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.08.2021 03:58		
4-Bromofluorobenzene	460-00-4	90	%	70-130	01.08.2021 03:58		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-10 (1.5')** Matrix: Soil Date Received: 01.07.2021 08:27
 Lab Sample Id: 683730-065 Date Collected: 01.06.2021 00:00 Sample Depth: 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147124 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.0	10.0	mg/kg	01.08.2021 01:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.07.2021 17:00 % Moisture:
 Seq Number: 3147117 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.08.2021 01:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.08.2021 01:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.08.2021 01:54	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.08.2021 01:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.08.2021 01:54		
o-Terphenyl	84-15-1	100	%	70-135	01.08.2021 01:54		



Certificate of Analytical Results 683730

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-10 (1.5')**

Matrix: Soil

Date Received: 01.07.2021 08:27

Lab Sample Id: 683730-065

Date Collected: 01.06.2021 00:00

Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.07.2021 17:30

% Moisture:

Seq Number: 3147110

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.08.2021 04:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.08.2021 04:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.08.2021 04:21	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.08.2021 04:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.08.2021 04:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.08.2021 04:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.08.2021 04:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	01.08.2021 04:21		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.08.2021 04:21		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147119

Matrix: Solid

Prep Method: E300P

Date Prep: 01.07.2021

MB Sample Id: 7718700-1-BLK

LCS Sample Id: 7718700-1-BKS

LCSD Sample Id: 7718700-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	248	99	249	100	90-110	0	20	mg/kg	01.07.2021 14:45	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147121

Matrix: Solid

Prep Method: E300P

Date Prep: 01.07.2021

MB Sample Id: 7718702-1-BLK

LCS Sample Id: 7718702-1-BKS

LCSD Sample Id: 7718702-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	253	101	90-110	1	20	mg/kg	01.07.2021 18:02	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147123

Matrix: Solid

Prep Method: E300P

Date Prep: 01.07.2021

MB Sample Id: 7718703-1-BLK

LCS Sample Id: 7718703-1-BKS

LCSD Sample Id: 7718703-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	245	98	246	98	90-110	0	20	mg/kg	01.07.2021 21:19	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147124

Matrix: Solid

Prep Method: E300P

Date Prep: 01.07.2021

MB Sample Id: 7718706-1-BLK

LCS Sample Id: 7718706-1-BKS

LCSD Sample Id: 7718706-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	248	99	249	100	90-110	0	20	mg/kg	01.08.2021 00:36	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147119

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-001

MS Sample Id: 683730-001 S

MSD Sample Id: 683730-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	196	98	196	98	90-110	0	20	mg/kg	01.07.2021 15:02	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147119

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-011

MS Sample Id: 683730-011 S

MSD Sample Id: 683730-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	18.7	200	209	95	208	95	90-110	0	20	mg/kg	01.07.2021 16:26	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147121

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-021

MS Sample Id: 683730-021 S

MSD Sample Id: 683730-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.96	199	197	99	198	99	90-110	1	20	mg/kg	01.07.2021 18:20	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147121

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-031

MS Sample Id: 683730-031 S

MSD Sample Id: 683730-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	42.3	200	227	92	226	92	90-110	0	20	mg/kg	01.07.2021 19:43	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147123

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-041

MS Sample Id: 683730-041 S

MSD Sample Id: 683730-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.5	199	199	94	193	91	90-110	3	20	mg/kg	01.07.2021 21:37	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147123

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-051

MS Sample Id: 683730-051 S

MSD Sample Id: 683730-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	18.9	200	208	95	211	96	90-110	1	20	mg/kg	01.07.2021 23:01	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147124

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683730-061

MS Sample Id: 683730-061 S

MSD Sample Id: 683730-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	78.4	200	276	99	272	97	90-110	1	20	mg/kg	01.08.2021 00:54	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147124

Matrix: Soil

Prep Method: E300P

Date Prep: 01.07.2021

Parent Sample Id: 683749-006

MS Sample Id: 683749-006 S

MSD Sample Id: 683749-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3270	201	3470	100	3460	94	90-110	0	20	mg/kg	01.08.2021 02:18	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147113

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.07.2021

MB Sample Id: 7718693-1-BLK

LCS Sample Id: 7718693-1-BKS

LCSD Sample Id: 7718693-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1110	111	70-135	6	35	mg/kg	01.07.2021 14:09	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1100	110	70-135	2	35	mg/kg	01.07.2021 14:09	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	95		91		101		70-135	%	01.07.2021 14:09			
o-Terphenyl	85		103		110		70-135	%	01.07.2021 14:09			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147114

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.07.2021

MB Sample Id: 7718695-1-BLK

LCS Sample Id: 7718695-1-BKS

LCSD Sample Id: 7718695-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	988	99	1030	103	70-135	4	35	mg/kg	01.07.2021 14:09	
Diesel Range Organics (DRO)	<50.0	1000	960	96	926	93	70-135	4	35	mg/kg	01.07.2021 14:09	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	111		111		107		70-135	%	01.07.2021 14:09			
o-Terphenyl	116		108		118		70-135	%	01.07.2021 14:09			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147115

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.07.2021

MB Sample Id: 7718696-1-BLK

LCS Sample Id: 7718696-1-BKS

LCSD Sample Id: 7718696-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1160	116	1020	102	70-135	13	35	mg/kg	01.07.2021 23:13	
Diesel Range Organics (DRO)	<50.0	1000	1180	118	1090	109	70-135	8	35	mg/kg	01.07.2021 23:13	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	96		109		95		70-135	%	01.07.2021 23:13			
o-Terphenyl	82		106		113		70-135	%	01.07.2021 23:13			

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147117

MB Sample Id: 7718698-1-BLK

Matrix: Solid

LCS Sample Id: 7718698-1-BKS

Prep Method: SW8015P

Date Prep: 01.07.2021

LCSD Sample Id: 7718698-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	1080	108	70-135	4	35	mg/kg	01.07.2021 23:13	
Diesel Range Organics (DRO)	<50.0	1000	990	99	1090	109	70-135	10	35	mg/kg	01.07.2021 23:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		116		115		70-135	%	01.07.2021 23:13
o-Terphenyl	103		104		110		70-135	%	01.07.2021 23:13

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147113

Matrix: Solid

MB Sample Id: 7718693-1-BLK

Prep Method: SW8015P

Date Prep: 01.07.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.07.2021 13:49	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147114

Matrix: Solid

MB Sample Id: 7718695-1-BLK

Prep Method: SW8015P

Date Prep: 01.07.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.07.2021 13:49	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147115

Matrix: Solid

MB Sample Id: 7718696-1-BLK

Prep Method: SW8015P

Date Prep: 01.07.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.07.2021 22:53	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147117

Matrix: Solid

MB Sample Id: 7718698-1-BLK

Prep Method: SW8015P

Date Prep: 01.07.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.07.2021 22:53	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147113

Parent Sample Id: 683730-001

Matrix: Soil

MS Sample Id: 683730-001 S

Prep Method: SW8015P

Date Prep: 01.07.2021

MSD Sample Id: 683730-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1060	106	940	94	70-135	12	35	mg/kg	01.07.2021 15:09	
Diesel Range Organics (DRO)	<50.1	1000	905	91	1100	111	70-135	19	35	mg/kg	01.07.2021 15:09	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		102		70-135	%	01.07.2021 15:09
o-Terphenyl	118		102		70-135	%	01.07.2021 15:09

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147114

Parent Sample Id: 683730-021

Matrix: Soil

MS Sample Id: 683730-021 S

Prep Method: SW8015P

Date Prep: 01.07.2021

MSD Sample Id: 683730-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1140	114	1080	108	70-135	5	35	mg/kg	01.07.2021 15:09	
Diesel Range Organics (DRO)	<49.9	998	1110	111	927	93	70-135	18	35	mg/kg	01.07.2021 15:09	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		117		70-135	%	01.07.2021 15:09
o-Terphenyl	102		106		70-135	%	01.07.2021 15:09

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147115

Parent Sample Id: 683730-041

Matrix: Soil

MS Sample Id: 683730-041 S

Prep Method: SW8015P

Date Prep: 01.07.2021

MSD Sample Id: 683730-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1150	115	1030	102	70-135	11	35	mg/kg	01.08.2021 00:14	
Diesel Range Organics (DRO)	<49.9	998	1110	111	1120	111	70-135	1	35	mg/kg	01.08.2021 00:14	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		121		70-135	%	01.08.2021 00:14
o-Terphenyl	115		122		70-135	%	01.08.2021 00:14

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147117

Parent Sample Id: 683730-061

Matrix: Soil

MS Sample Id: 683730-061 S

Prep Method: SW8015P

Date Prep: 01.07.2021

MSD Sample Id: 683730-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1160	116	1050	105	70-135	10	35	mg/kg	01.08.2021 00:14	
Diesel Range Organics (DRO)	<50.0	999	1050	105	1140	114	70-135	8	35	mg/kg	01.08.2021 00:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		107		70-135	%	01.08.2021 00:14
o-Terphenyl	106		118		70-135	%	01.08.2021 00:14

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147106

MB Sample Id: 7718711-1-BLK

Matrix: Solid

LCS Sample Id: 7718711-1-BKS

Prep Method: SW5035A

Date Prep: 01.07.2021

LCSD Sample Id: 7718711-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0960	96	0.0971	97	70-130	1	35	mg/kg	01.07.2021 12:42	
Toluene	<0.00200	0.100	0.0931	93	0.0898	90	70-130	4	35	mg/kg	01.07.2021 12:42	
Ethylbenzene	<0.00200	0.100	0.0958	96	0.0933	93	71-129	3	35	mg/kg	01.07.2021 12:42	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.194	97	70-135	1	35	mg/kg	01.07.2021 12:42	
o-Xylene	<0.00200	0.100	0.0975	98	0.0962	96	71-133	1	35	mg/kg	01.07.2021 12:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		101		70-130	%	01.07.2021 12:42
4-Bromofluorobenzene	113		108		110		70-130	%	01.07.2021 12:42

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147107

MB Sample Id: 7718712-1-BLK

Matrix: Solid

LCS Sample Id: 7718712-1-BKS

Prep Method: SW5035A

Date Prep: 01.07.2021

LCSD Sample Id: 7718712-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.0943	94	70-130	7	35	mg/kg	01.07.2021 13:06	
Toluene	<0.00200	0.100	0.0988	99	0.0927	93	70-130	6	35	mg/kg	01.07.2021 13:06	
Ethylbenzene	<0.00200	0.100	0.0926	93	0.0862	86	71-129	7	35	mg/kg	01.07.2021 13:06	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.176	88	70-135	7	35	mg/kg	01.07.2021 13:06	
o-Xylene	<0.00200	0.100	0.0933	93	0.0868	87	71-133	7	35	mg/kg	01.07.2021 13:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		96		94		70-130	%	01.07.2021 13:06
4-Bromofluorobenzene	87		86		83		70-130	%	01.07.2021 13:06

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147109

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.07.2021

MB Sample Id: 7718713-1-BLK

LCS Sample Id: 7718713-1-BKS

LCSD Sample Id: 7718713-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0923	92	0.0990	99	70-130	7	35	mg/kg	01.08.2021 00:59	
Toluene	<0.00200	0.100	0.0873	87	0.0916	92	70-130	5	35	mg/kg	01.08.2021 00:59	
Ethylbenzene	<0.00200	0.100	0.0904	90	0.0971	97	71-129	7	35	mg/kg	01.08.2021 00:59	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.201	101	70-135	7	35	mg/kg	01.08.2021 00:59	
o-Xylene	<0.00200	0.100	0.0932	93	0.0996	100	71-133	7	35	mg/kg	01.08.2021 00:59	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		101		103		70-130	%	01.08.2021 00:59
4-Bromofluorobenzene	115		107		110		70-130	%	01.08.2021 00:59

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147110

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.07.2021

MB Sample Id: 7718714-1-BLK

LCS Sample Id: 7718714-1-BKS

LCSD Sample Id: 7718714-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0965	97	0.0993	99	70-130	3	35	mg/kg	01.08.2021 00:49	
Toluene	<0.00200	0.100	0.0931	93	0.0963	96	70-130	3	35	mg/kg	01.08.2021 00:49	
Ethylbenzene	<0.00200	0.100	0.0862	86	0.0886	89	71-129	3	35	mg/kg	01.08.2021 00:49	
m,p-Xylenes	<0.00400	0.200	0.176	88	0.180	90	70-135	2	35	mg/kg	01.08.2021 00:49	
o-Xylene	<0.00200	0.100	0.0878	88	0.0902	90	71-133	3	35	mg/kg	01.08.2021 00:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		94		94		70-130	%	01.08.2021 00:49
4-Bromofluorobenzene	88		87		86		70-130	%	01.08.2021 00:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147106

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.07.2021

Parent Sample Id: 683730-001

MS Sample Id: 683730-001 S

MSD Sample Id: 683730-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.101	101	0.107	106	70-130	6	35	mg/kg	01.07.2021 13:27	
Toluene	<0.00200	0.0998	0.0930	93	0.0961	95	70-130	3	35	mg/kg	01.07.2021 13:27	
Ethylbenzene	<0.00200	0.0998	0.0970	97	0.0998	99	71-129	3	35	mg/kg	01.07.2021 13:27	
m,p-Xylenes	<0.00399	0.200	0.201	101	0.204	101	70-135	1	35	mg/kg	01.07.2021 13:27	
o-Xylene	<0.00200	0.0998	0.0975	98	0.101	100	71-133	4	35	mg/kg	01.07.2021 13:27	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		110		70-130	%	01.07.2021 13:27
4-Bromofluorobenzene	101		114		70-130	%	01.07.2021 13:27

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147107

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.07.2021

Parent Sample Id: 683730-021

MS Sample Id: 683730-021 S

MSD Sample Id: 683730-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.102	102	0.118	118	70-130	15	35	mg/kg	01.07.2021 13:51	
Toluene	<0.00199	0.0996	0.0998	100	0.116	116	70-130	15	35	mg/kg	01.07.2021 13:51	
Ethylbenzene	<0.00199	0.0996	0.0923	93	0.109	109	71-129	17	35	mg/kg	01.07.2021 13:51	
m,p-Xylenes	<0.00398	0.199	0.188	94	0.223	112	70-135	17	35	mg/kg	01.07.2021 13:51	
o-Xylene	<0.00199	0.0996	0.0917	92	0.108	108	71-133	16	35	mg/kg	01.07.2021 13:51	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		95		70-130	%	01.07.2021 13:51
4-Bromofluorobenzene	87		87		70-130	%	01.07.2021 13:51

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147109

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.07.2021

Parent Sample Id: 683730-041

MS Sample Id: 683730-041 S

MSD Sample Id: 683730-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.103	103	0.103	103	70-130	0	35	mg/kg	01.08.2021 01:44	
Toluene	<0.00201	0.100	0.0966	97	0.0948	95	70-130	2	35	mg/kg	01.08.2021 01:44	
Ethylbenzene	<0.00201	0.100	0.0987	99	0.101	101	71-129	2	35	mg/kg	01.08.2021 01:44	
m,p-Xylenes	<0.00402	0.201	0.203	101	0.208	103	70-135	2	35	mg/kg	01.08.2021 01:44	
o-Xylene	<0.00201	0.100	0.100	100	0.103	103	71-133	3	35	mg/kg	01.08.2021 01:44	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		103		70-130	%	01.08.2021 01:44
4-Bromofluorobenzene	107		112		70-130	%	01.08.2021 01:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147110

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.07.2021

Parent Sample Id: 683730-061

MS Sample Id: 683730-061 S

MSD Sample Id: 683730-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.114	114	0.106	106	70-130	7	35	mg/kg	01.08.2021 01:34	
Toluene	<0.00200	0.100	0.110	110	0.100	100	70-130	10	35	mg/kg	01.08.2021 01:34	
Ethylbenzene	<0.00200	0.100	0.102	102	0.0915	92	71-129	11	35	mg/kg	01.08.2021 01:34	
m,p-Xylenes	<0.00401	0.200	0.209	105	0.188	94	70-135	11	35	mg/kg	01.08.2021 01:34	
o-Xylene	<0.00200	0.100	0.105	105	0.0928	93	71-133	12	35	mg/kg	01.08.2021 01:34	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		93		70-130	%	01.08.2021 01:34
4-Bromofluorobenzene	91		86		70-130	%	01.08.2021 01:34

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

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

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

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

Analysis Request of Custody Record



Tetra Tech, Inc.

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Midland, Texas 79701
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Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: Lea County, NM		Project #: 212C-MD-02387	
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
	BH-1 (2')	1/5/2021		X				X	N		
	BH-2 (2')	1/5/2021		X				X	N		
	BH-3 (2')	1/5/2021		X				X	N		
	BH-4 (2')	1/5/2021		X				X	N		
	BH-5 (2')	1/5/2021		X				X	N		
	BH-6 (2')	1/5/2021		X				X	N		
	BH-7 (2')	1/5/2021		X				X	N		
	BH-8 (2')	1/5/2021		X				X	N		
	BH-9 (2')	1/5/2021		X				X	N		
	BH-10 (2')	1/5/2021		X				X	N		

Inquired by: <i>[Signature]</i> 1/7/21 Date: _____ Time: _____ Received by: <i>[Signature]</i> 1-7-21 Date: _____ Time: _____	Received by: _____ Date: _____ Time: _____
--	--

LAB USE ONLY REMARKS: ☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	ANALYSIS REQUEST (Circle or Specify Method No.) BTEX 8021B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride 300.0 Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance TPH 8015R Hold
---	---

ORIGINAL COPY

1083730

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

501 West 17th Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

1683730

Client Name:	EOG	Site Manager:	Mike Carmona
Project Name:	Bear Booster		
Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-02387
Invoice to:	EOG Todd Wells		
Receiving Laboratory:	Xenco	Sampler Signature:	Ezequiel Moreno
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH-11 (2)	1/5/2021		X				X		1	N	X
	BH-12 (2)	1/5/2021		X				X		1	N	X
	BH-13 (2)	1/5/2021		X				X		1	N	X
	BH-14 (1.5')	1/5/2021		X				X		1	N	X
	BH-15 (1.5')	1/5/2021		X				X		1	N	X
	BH-16 (1.5')	1/5/2021		X				X		1	N	X
	BH-17 (1.5')	1/5/2021		X				X		1	N	X
	BH-18 (1.5')	1/5/2021		X				X		1	N	X
	BH-19 (1.5')	1/5/2021		X				X		1	N	X
	BH-20 (1.5')	1/5/2021		X				X		1	N	X

Inquired by:	Date:	Time:	Received by:	Date:	Time:
<i>Samuel N...</i>	1/7/21		<i>Mike Carmona</i>	1-7-21	8:29
Inquired by:	Date:	Time:	Received by:	Date:	Time:

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

LAB USE ONLY	ANALYSIS REQUEST (Circle or Specify Method No.)
	BTEX 8021B
	TPH TX1005 (Ext to C35)
	TPH 8015M (GRO - DRO - ORO - MRO)
	PAH 8270C
	Total Metals Ag As Ba Cd Cr Pb Se Hg
	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	TCLP Volatiles
	TCLP Semi Volatiles
	RCI
	GC/MS Vol. 8260B / 624
	GC/MS Semi. Vol. 8270C/625
	PCB's 8082 / 608
	NORM
	PLM (Asbestos)
	Chloride 300.0
	Chloride Sulfate TDS
	General Water Chemistry (see attached list)
	Anion/Cation Balance
	TPH 8015R
	Hold

ORIGINAL COPY

Analysis Request of Custody Record

Tetra Tech, Inc.



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

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bear Booster

Project Location:
(county, state)

Lea County, NM

Project #:

212C-MD-02387

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR: 2020

DATE
TIME

WATER
SOIL
HCL
HNO₃
ICE
None

PRESERVATIVE METHOD

CONTAINERS

FILTERED (Y/N)

BH-21 (1.5')
BH-22 (1.5')
BH-23 (1.5')
BH-24 (1.5')
BH-25 (1.5')
BH-26 (1.5')
BH-27 (1')
BH-28 (1')
BH-29 (1')
BH-30 (1.5')

Date: Time:

Received by:

Date: Time:

Ezequiel Moreno
1/7/21

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B
TPH TX1005 (Ext to C35)
TPH 8015M (GRO - DRO - ORO - MRO)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C/625
PCB's 8082 / 608
NORM
PLM (Asbestos)
Chloride 300.0
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance
TPH 8015R

Hold

REMARKS:

☐ STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature

See Page 1

LAB USE ONLY

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

1083730

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bear Booster

Project Location:

Lea County, NM

Project #:

212C-MD-02387

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING
YEAR: 2020
DATE
TIME

MATRIX
PRESERVATIVE METHOD

WATER
SOIL
HCL
HNO₃
ICE
None

CONTAINERS
FILTERED (Y/N)

BH-31 (1.5')	1/6/2021		X						1	N
BH-32 (1.5')	1/6/2021		X						1	N
BH-33 (1.5')	1/6/2021		X						1	N
BH-34 (1.5')	1/6/2021		X						1	N
BH-35 (1.5')	1/6/2021		X						1	N
BH-36 (1.5')	1/6/2021		X						1	N
BH-37 (1.5')	1/6/2021		X						1	N
BH-38 (1.5')	1/6/2021		X						1	N
BH-39 (1.5')	1/6/2021		X						1	N
BH-40 (1.5')	1/6/2021		X						1	N

Inquired by: *Ezequiel Moreno*

Received by: *Ezequiel Moreno*

Date: 1-7-21

Time: 823

Inquired by: *Ezequiel Moreno*

Received by: *Ezequiel Moreno*

Date: 1-7-21

Time: 823

Inquired by: *Ezequiel Moreno*

Received by: *Ezequiel Moreno*

Date: 1-7-21

Time: 823

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride 300.0	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
Hold	

LAB USE ONLY

REMARKS:

☐ STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature
1.8/1.4

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

163780

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 901 WEST VAIL STREET, SUITE 100
 MIDLAND, TEXAS 79701
 Tel (432) 682-4559 Fax (432) 682-3946

Page 5 of 7

683730

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: Lea County, NM		Invoice to: EOG Todd Wells	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
										YEAR 2020				
	BH-41 (1.5')	1/6/2021		X				X				1	N	BTEX 8021B
	BH-42 (1.5')	1/6/2021		X				X				1	N	TPH TX1005 (Ext to C35)
	BH-43 (1.5')	1/6/2021		X				X				1	N	TPH 8015M (GRO - DRO - ORO - MRO)
	BH-44 (1.5')	1/6/2021		X				X				1	N	PAH 8270C
	BH-45 (1.5')	1/6/2021		X				X				1	N	Total Metals Ag As Ba Cd Cr Pb Se Hg
	BH-46 (1.5')	1/6/2021		X				X				1	N	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	BH-47 (1.5')	1/6/2021		X				X				1	N	TCLP Volatiles
	BH-48 (1.5')	1/6/2021		X				X				1	N	TCLP Semi Volatiles
	BH-49 (1.5')	1/6/2021		X				X				1	N	RCI
	BH-50 (1.5')	1/6/2021		X				X				1	N	GC/MS Vol. 8260B / 624
														GC/MS Semi. Vol. 8270C/625
														PCB's 8082 / 608
														NORM
														PLM (Asbestos)
														Chloride 300.0
														Chloride Sulfate TDS
														General Water Chemistry (see attached list)
														Anion/Cation Balance
														TPH 8015R
														Hold

Inquired by: <i>Ezequiel Moreno</i> 1/7/21	Date: 1/7/21	Time: 823
Inquired by: <i>Mike Carmona</i> 1/7/21	Date: 1/7/21	Time: 823
Inquired by: _____	Date: _____	Time: _____

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

LAB USE ONLY	REMARKS:
☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	Sample Temperature 1.8/1.6 (Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 901 West 17th Street, Ste 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

Page 6 of 7

683730

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: Lea County, NM		Invoice to: EOG Todd Wells	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH-51 (1.5')	1/6/2021		X				X			1	N
	BH-52 (1.5')	1/6/2021		X				X			1	N
	BH-53 (1.5')	1/6/2021		X				X			1	N
	BH-54 (1.5')	1/6/2021		X				X			1	N
	BH-55 (1.5')	1/6/2021		X				X			1	N
	SW-1 (2')	1/6/2021		X				X			1	N
	SW-2 (2')	1/6/2021		X				X			1	N
	SW-3 (2')	1/6/2021		X				X			1	N
	SW-4 (1.5')	1/6/2021		X				X			1	N
	SW-5 (1.5')	1/6/2021		X				X			1	N

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

ANALYSIS REQUEST (Circle or Specify Method No.)	
☐ BTEX 8021B	
☐ TPH TX1005 (Ext to C35)	
☐ TPH 8015M (GRO - DRO - ORO - MRO)	
☐ PAH 8270C	
☐ Total Metals Ag As Ba Cd Cr Pb Se Hg	
☐ TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
☐ TCLP Volatiles	
☐ TCLP Semi Volatiles	
☐ RCI	
☐ GC/MS Vol. 8260B / 624	
☐ GC/MS Semi. Vol. 8270C/625	
☐ PCB's 8082 / 608	
☐ NORM	
☐ PLM (Asbestos)	
☐ Chloride 300.0	
☐ Chloride Sulfate TDS	
☐ General Water Chemistry (see attached list)	
☐ Anion/Cation Balance	
☐ TPH 8015R	
☐ Hold	

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 7 of 7

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bear Booster

Project Location:

Lea County, NM

Project #:

212C-MD-02387

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

LAB #
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING

MATRIX

PRESERVATIVE METHOD

DATE

TIME

WATER

SOIL

HCL

HNO₃

ICE

None

CONTAINERS

FILTERED (Y/N)

BTEX 8021B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride 300.0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

Hold

ANALYSIS REQUEST

(Circle or Specify Method No.)

Surrendered by:

Date: Time:

Received by:

Date: Time:

Surrendered by:

Date: Time:

Received by:

Date: Time:

Surrendered by:

Date: Time:

Received by:

Date: Time:

 Ezequiel Moreno
 1/7/21

 Ezequiel Moreno
 1-7-21

1-7-21 827

LAB USE ONLY

REMARKS:

☐ STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

 Sample Temperature
 Page 1

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

683730

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01.07.2021 08.27.00 AM

Work Order #: 683730

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)?	1.6
#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

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 01.07.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.08.2021

Certificate of Analysis Summary 684058



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 01.08.2021 16:43
Report Date: 01.12.2021 16:16
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684058-001	684058-002	684058-003	684058-004	684058-005	684058-006
	<i>Field Id:</i>	BH-56 (1')	BH-57 (1')	BH-58 (1')	BH-59 (1')	BH-60 (1')	BH-61 (1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27
	<i>Analyzed:</i>	01.11.2021 15:01	01.11.2021 15:24	01.11.2021 15:46	01.11.2021 16:09	01.11.2021 16:31	01.11.2021 16:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00401 0.00401	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00
	<i>Analyzed:</i>	01.11.2021 13:23	01.11.2021 13:41	01.11.2021 13:47	01.11.2021 13:53	01.11.2021 13:59	01.11.2021 14:17
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		11.5 10.1	17.9 10.0	<9.98 9.98	<9.94 9.94	<10.0 10.0	11.5 9.98
TPH By SW8015 Mod	<i>Extracted:</i>	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00
	<i>Analyzed:</i>	01.11.2021 19:09	01.11.2021 20:09	01.11.2021 20:29	01.11.2021 20:49	01.11.2021 21:09	01.11.2021 21:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2
Diesel Range Organics (DRO)		<50.1 50.1	<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2
Total TPH		<50.1 50.1	<50.1 50.1	<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 684058



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 01.08.2021 16:43
Report Date: 01.12.2021 16:16
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684058-007	684058-008	684058-009	684058-010	684058-011	684058-012
	<i>Field Id:</i>	BH-62 (1')	BH-63 (1')	BH-64 (1')	BH-65 (1')	BH-66 (1')	BH-67 (1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00	01.07.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27
	<i>Analyzed:</i>	01.11.2021 17:16	01.11.2021 17:39	01.11.2021 18:01	01.11.2021 18:24	01.11.2021 19:44	01.11.2021 20:06
	<i>Units/RL:</i>	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	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00401 0.00401	<0.00400 0.00400	<0.00401 0.00401	<0.00403 0.00403	<0.00399 0.00399	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00
	<i>Analyzed:</i>	01.11.2021 14:23	01.11.2021 14:29	01.11.2021 14:35	01.11.2021 14:41	01.11.2021 14:47	01.11.2021 15:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.0 9.92	10.4 10.0	12.4 10.0	10.3 9.92	14.6 9.92	14.9 10.1
TPH By SW8015 Mod	<i>Extracted:</i>	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00
	<i>Analyzed:</i>	01.11.2021 21:48	01.11.2021 22:08	01.11.2021 22:28	01.11.2021 22:48	01.11.2021 23:27	01.11.2021 23:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 684058



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 01.08.2021 16:43
Report Date: 01.12.2021 16:16
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684058-013	684058-014	684058-015	684058-016	684058-017	684058-018
	<i>Field Id:</i>	BH-68 (1')	BH-69 (1.5')	BH-70 (1.5')	BH-71 (1.5')	BH-72 (1.5')	BH-73 (1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.07.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:27
	<i>Analyzed:</i>	01.11.2021 20:29	01.11.2021 20:51	01.11.2021 21:14	01.11.2021 21:36	01.11.2021 21:59	01.11.2021 22:21
	<i>Units/RL:</i>	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	<0.00201 0.00201	<0.000286 0.000286	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.000286 0.000286	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.000286 0.000286	<0.00198 0.00198
m,p-Xylenes		<0.00399 0.00399	<0.00401 0.00401	<0.00396 0.00396	<0.00402 0.00402	<0.000571 0.000571	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.000286 0.000286	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.000286 0.000286	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.000286 0.000286	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 13:00
	<i>Analyzed:</i>	01.11.2021 15:11	01.11.2021 15:29	01.11.2021 15:35	01.11.2021 15:41	01.11.2021 15:47	01.11.2021 15:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		15.1 9.98	251 9.94	178 10.1	12.6 10.1	12.6 10.1	13.1 9.92
TPH By SW8015 Mod	<i>Extracted:</i>	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00
	<i>Analyzed:</i>	01.12.2021 00:07	01.12.2021 00:26	01.12.2021 00:46	01.12.2021 01:05	01.12.2021 01:25	01.12.2021 01:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.3 50.3	<50.3 50.3
Diesel Range Organics (DRO)		<49.8 49.8	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.3 50.3	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.3 50.3	<50.3 50.3
Total TPH		<49.8 49.8	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.3 50.3	<50.3 50.3

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 684058



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 01.08.2021 16:43
Report Date: 01.12.2021 16:16
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684058-019	684058-020	684058-021	684058-022	684058-023	684058-024
	<i>Field Id:</i>	BH-74 (1.5')	BH-75 (1.5')	BH-76 (1.5')	BH-77 (1.5')	BH-78 (1.5')	SW-11 (1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.11.2021 11:27	01.11.2021 11:27	01.11.2021 11:30	01.11.2021 11:30	01.11.2021 11:30	01.11.2021 11:30
	<i>Analyzed:</i>	01.11.2021 22:44	01.11.2021 23:06	01.11.2021 14:55	01.11.2021 15:18	01.11.2021 15:40	01.11.2021 16:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00403 0.00403	<0.00401 0.00401	<0.00401 0.00401	<0.00399 0.00399	<0.00397 0.00397	<0.00399 0.00399
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.11.2021 13:00	01.11.2021 13:00	01.11.2021 14:16	01.11.2021 14:16	01.11.2021 14:16	01.11.2021 14:16
	<i>Analyzed:</i>	01.11.2021 15:59	01.11.2021 16:04	01.11.2021 16:40	01.11.2021 16:58	01.11.2021 17:04	01.11.2021 17:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		22.1 10.1	14.0 9.94	13.9 10.0	<9.96 9.96	10.6 10.1	11.3 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00
	<i>Analyzed:</i>	01.12.2021 02:04	01.12.2021 02:24	01.11.2021 19:09	01.11.2021 20:09	01.11.2021 20:29	01.11.2021 20:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.4 50.4
Diesel Range Organics (DRO)		<50.3 50.3	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.4 50.4
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.4 50.4
Total TPH		<50.3 50.3	<49.8 49.8	<50.1 50.1	<49.8 49.8	<50.2 50.2	<50.4 50.4

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 684058



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 01.08.2021 16:43
Report Date: 01.12.2021 16:16
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684058-025	684058-026	684058-027	684058-028	684058-029	684058-030
	<i>Field Id:</i>	SW-12 (1')	SW-13 (1')	SW-14 (1')	SW-15 (1')	SW-16 (1.5')	SW-17 (1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00	01.08.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.11.2021 11:30	01.11.2021 11:30	01.11.2021 11:30	01.11.2021 11:30	01.11.2021 11:30	01.11.2021 11:30
	<i>Analyzed:</i>	01.11.2021 16:25	01.11.2021 16:47	01.11.2021 17:10	01.11.2021 17:35	01.11.2021 18:44	01.11.2021 19:09
	<i>Units/RL:</i>	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	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00401 0.00401	<0.00398 0.00398	<0.00397 0.00397	<0.00403 0.00403	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<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	<i>Extracted:</i>	01.11.2021 14:16	01.11.2021 14:16	01.11.2021 14:16	01.11.2021 14:16	01.11.2021 14:16	01.11.2021 14:16
	<i>Analyzed:</i>	01.11.2021 17:16	01.11.2021 17:34	01.11.2021 17:40	01.11.2021 17:46	01.11.2021 17:52	01.11.2021 17:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12.2 9.96	11.7 10.0	72.5 9.94	75.3 9.90	12.3 10.0	13.5 10.1
TPH By SW8015 Mod	<i>Extracted:</i>	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00	01.11.2021 17:00
	<i>Analyzed:</i>	01.11.2021 21:09	01.11.2021 21:29	01.11.2021 21:48	01.11.2021 22:08	01.11.2021 22:28	01.11.2021 22:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.1 50.1
Total TPH		<49.9 49.9	<49.8 49.8	<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.1 50.1

BRL - Below Reporting Limit

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



Analytical Report 684058

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Bear Booster

212C-MD-02387

01.12.2021

Collected By: Client

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

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

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

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



01.12.2021

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **684058**

Bear Booster

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684058. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684058 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-56 (1')	S	01.07.2021 00:00		684058-001
BH-57 (1')	S	01.07.2021 00:00		684058-002
BH-58 (1')	S	01.07.2021 00:00		684058-003
BH-59 (1')	S	01.07.2021 00:00		684058-004
BH-60 (1')	S	01.07.2021 00:00		684058-005
BH-61 (1')	S	01.07.2021 00:00		684058-006
BH-62 (1')	S	01.07.2021 00:00		684058-007
BH-63 (1')	S	01.07.2021 00:00		684058-008
BH-64 (1')	S	01.07.2021 00:00		684058-009
BH-65 (1')	S	01.07.2021 00:00		684058-010
BH-66 (1')	S	01.07.2021 00:00		684058-011
BH-67 (1')	S	01.07.2021 00:00		684058-012
BH-68 (1')	S	01.07.2021 00:00		684058-013
BH-69 (1.5')	S	01.08.2021 00:00		684058-014
BH-70 (1.5')	S	01.08.2021 00:00		684058-015
BH-71 (1.5')	S	01.08.2021 00:00		684058-016
BH-72 (1.5')	S	01.08.2021 00:00		684058-017
BH-73 (1.5')	S	01.08.2021 00:00		684058-018
BH-74 (1.5')	S	01.08.2021 00:00		684058-019
BH-75 (1.5')	S	01.08.2021 00:00		684058-020
BH-76 (1.5')	S	01.08.2021 00:00		684058-021
BH-77 (1.5')	S	01.08.2021 00:00		684058-022
BH-78 (1.5')	S	01.08.2021 00:00		684058-023
SW-11 (1')	S	01.08.2021 00:00		684058-024
SW-12 (1')	S	01.08.2021 00:00		684058-025
SW-13 (1')	S	01.08.2021 00:00		684058-026
SW-14 (1')	S	01.08.2021 00:00		684058-027
SW-15 (1')	S	01.08.2021 00:00		684058-028
SW-16 (1.5')	S	01.08.2021 00:00		684058-029
SW-17 (1.5')	S	01.08.2021 00:00		684058-030



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Bear Booster

Project ID: 212C-MD-02387
Work Order Number(s): 684058

Report Date: 01.12.2021
Date Received: 01.08.2021

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-56 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-001

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.5	10.1	mg/kg	01.11.2021 13:23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	01.11.2021 19:09		
o-Terphenyl	84-15-1	108	%	70-135	01.11.2021 19:09		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-56 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-001

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.11.2021 15:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.11.2021 15:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.11.2021 15:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.11.2021 15:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.11.2021 15:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.11.2021 15:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.11.2021 15:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.11.2021 15:01		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.11.2021 15:01		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-57 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-002

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.9	10.0	mg/kg	01.11.2021 13:41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.11.2021 20:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.11.2021 20:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.11.2021 20:09	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.11.2021 20:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-135	01.11.2021 20:09		
o-Terphenyl	84-15-1	124	%	70-135	01.11.2021 20:09		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-57 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-002

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.11.2021 15:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.11.2021 15:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.11.2021 15:24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.11.2021 15:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.11.2021 15:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.11.2021 15:24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.11.2021 15:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	01.11.2021 15:24		
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.11.2021 15:24		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-58 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-003

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	01.11.2021 13:47	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.11.2021 20:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.11.2021 20:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.11.2021 20:29	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.11.2021 20:29	U	1

Surrogate

1-Chlorooctane

Cas Number 111-85-3

% Recovery 112

Units %

Limits 70-135

Analysis Date 01.11.2021 20:29

Flag

o-Terphenyl

Cas Number 84-15-1

% Recovery 102

Units %

Limits 70-135

Analysis Date 01.11.2021 20:29



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-58 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-003

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 15:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 15:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 15:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 15:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 15:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 15:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 15:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.11.2021 15:46	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.11.2021 15:46	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-59 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-004

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	01.11.2021 13:53	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.11.2021 20:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.11.2021 20:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.11.2021 20:49	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.11.2021 20:49	U	1

Surrogate

1-Chlorooctane

Cas Number

111-85-3

% Recovery

117

Units

%

Limits

70-135

Analysis Date

01.11.2021 20:49

Flag

o-Terphenyl

84-15-1

120

%

70-135

01.11.2021 20:49



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-59 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-004

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 16:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 16:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 16:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.11.2021 16:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 16:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 16:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 16:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	128	%	70-130	01.11.2021 16:09		
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.11.2021 16:09		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-60 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-005

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	01.11.2021 13:59	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1

Surrogate

1-Chlorooctane

Cas Number 111-85-3

% Recovery 108

Units %

Limits 70-135

Analysis Date 01.11.2021 21:09

Flag

o-Terphenyl

Cas Number 84-15-1

% Recovery 98

Units %

Limits 70-135

Analysis Date 01.11.2021 21:09



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-60 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-005

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 16:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 16:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 16:31	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 16:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 16:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 16:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 16:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.11.2021 16:31		
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.11.2021 16:31		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-61 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-006

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.5	9.98	mg/kg	01.11.2021 14:17		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.11.2021 21:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.11.2021 21:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.11.2021 21:29	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.11.2021 21:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	01.11.2021 21:29	
o-Terphenyl	84-15-1	110	%	70-135	01.11.2021 21:29	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-61 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-006

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.11.2021 16:54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.11.2021 16:54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.11.2021 16:54	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.11.2021 16:54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.11.2021 16:54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.11.2021 16:54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.11.2021 16:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.11.2021 16:54		
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.11.2021 16:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-62 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-007

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.0	9.92	mg/kg	01.11.2021 14:23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.11.2021 21:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.11.2021 21:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.11.2021 21:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.11.2021 21:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	01.11.2021 21:48	
o-Terphenyl	84-15-1	104	%	70-135	01.11.2021 21:48	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-62 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-007

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 17:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 17:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 17:16	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 17:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 17:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 17:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 17:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	84	%	70-130	01.11.2021 17:16		
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.11.2021 17:16		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-63 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-008

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.4	10.0	mg/kg	01.11.2021 14:29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.11.2021 22:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.11.2021 22:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.11.2021 22:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.11.2021 22:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.11.2021 22:08	
o-Terphenyl	84-15-1	104	%	70-135	01.11.2021 22:08	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-63 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-008

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 17:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 17:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 17:39	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.11.2021 17:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 17:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 17:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 17:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.11.2021 17:39		
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.11.2021 17:39		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-64 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-009

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.4	10.0	mg/kg	01.11.2021 14:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	01.11.2021 22:28	
o-Terphenyl	84-15-1	104	%	70-135	01.11.2021 22:28	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-64 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-009

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 18:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 18:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 18:01	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 18:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 18:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 18:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 18:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.11.2021 18:01		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.11.2021 18:01		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-65 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-010

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.3	9.92	mg/kg	01.11.2021 14:41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	01.11.2021 22:48	
o-Terphenyl	84-15-1	104	%	70-135	01.11.2021 22:48	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-65 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-010

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.11.2021 18:24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.11.2021 18:24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.11.2021 18:24	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.11.2021 18:24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.11.2021 18:24	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.11.2021 18:24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.11.2021 18:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.11.2021 18:24		
1,4-Difluorobenzene	540-36-3	113	%	70-130	01.11.2021 18:24		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-66 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-011

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.6	9.92	mg/kg	01.11.2021 14:47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.11.2021 23:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.11.2021 23:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.11.2021 23:27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.11.2021 23:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-135	01.11.2021 23:27		
o-Terphenyl	84-15-1	103	%	70-135	01.11.2021 23:27		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-66 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-011

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 19:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 19:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 19:44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.11.2021 19:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 19:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 19:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 19:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.11.2021 19:44		
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.11.2021 19:44		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-67 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-012

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.9	10.1	mg/kg	01.11.2021 15:05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.11.2021 23:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.11.2021 23:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.11.2021 23:47	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.11.2021 23:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	01.11.2021 23:47	
o-Terphenyl	84-15-1	112	%	70-135	01.11.2021 23:47	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-67 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-012

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.11.2021 20:06	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.11.2021 20:06	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.11.2021 20:06	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.11.2021 20:06	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.11.2021 20:06	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.11.2021 20:06	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.11.2021 20:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.11.2021 20:06		
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.11.2021 20:06		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-68 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-013

Date Collected: 01.07.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.1	9.98	mg/kg	01.11.2021 15:11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.12.2021 00:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.12.2021 00:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.12.2021 00:07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.12.2021 00:07	U	1

Surrogate

1-Chlorooctane

Cas Number

111-85-3

% Recovery

105

Units

%

Limits

70-135

Analysis Date

01.12.2021 00:07

Flag

o-Terphenyl

84-15-1

98

%

70-135

01.12.2021 00:07



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-68 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-013

Date Collected: 01.07.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 20:29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 20:29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 20:29	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.11.2021 20:29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 20:29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 20:29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 20:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.11.2021 20:29		
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.11.2021 20:29		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-69 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-014

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	251	9.94	mg/kg	01.11.2021 15:29		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.12.2021 00:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.12.2021 00:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.12.2021 00:26	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.12.2021 00:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	110	%	70-135	01.12.2021 00:26		
o-Terphenyl	84-15-1	106	%	70-135	01.12.2021 00:26		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-69 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-014

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 20:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 20:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 20:51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 20:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 20:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 20:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 20:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.11.2021 20:51		
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.11.2021 20:51		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-70 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-015

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	178	10.1	mg/kg	01.11.2021 15:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.12.2021 00:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.12.2021 00:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.12.2021 00:46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.12.2021 00:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	123	%	70-135	01.12.2021 00:46		
o-Terphenyl	84-15-1	106	%	70-135	01.12.2021 00:46		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-70 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-015

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.11.2021 21:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.11.2021 21:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.11.2021 21:14	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	01.11.2021 21:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.11.2021 21:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.11.2021 21:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.11.2021 21:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.11.2021 21:14	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.11.2021 21:14	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-71 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-016

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.6	10.1	mg/kg	01.11.2021 15:41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.12.2021 01:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.12.2021 01:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.12.2021 01:05	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.12.2021 01:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	01.12.2021 01:05	
o-Terphenyl	84-15-1	106	%	70-135	01.12.2021 01:05	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-71 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-016

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.11.2021 21:36	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.11.2021 21:36	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.11.2021 21:36	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.11.2021 21:36	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.11.2021 21:36	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.11.2021 21:36	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.11.2021 21:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.11.2021 21:36	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.11.2021 21:36	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-72 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-017

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.6	10.1	mg/kg	01.11.2021 15:47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.12.2021 01:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.12.2021 01:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.12.2021 01:25	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.12.2021 01:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	01.12.2021 01:25		
o-Terphenyl	84-15-1	103	%	70-135	01.12.2021 01:25		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-72 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-017

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000286	0.000286	mg/kg	01.11.2021 21:59	U	1
Toluene	108-88-3	<0.000286	0.000286	mg/kg	01.11.2021 21:59	U	1
Ethylbenzene	100-41-4	<0.000286	0.000286	mg/kg	01.11.2021 21:59	U	1
m,p-Xylenes	179601-23-1	<0.000571	0.000571	mg/kg	01.11.2021 21:59	U	1
o-Xylene	95-47-6	<0.000286	0.000286	mg/kg	01.11.2021 21:59	U	1
Total Xylenes	1330-20-7	<0.000286	0.000286	mg/kg	01.11.2021 21:59	U	1
Total BTEX		<0.000286	0.000286	mg/kg	01.11.2021 21:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.11.2021 21:59		
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.11.2021 21:59		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-73 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-018

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.1	9.92	mg/kg	01.11.2021 15:53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.12.2021 01:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.12.2021 01:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.12.2021 01:44	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.12.2021 01:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	121	%	70-135	01.12.2021 01:44		
o-Terphenyl	84-15-1	122	%	70-135	01.12.2021 01:44		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-73 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-018

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.11.2021 22:21	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.11.2021 22:21	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.11.2021 22:21	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.11.2021 22:21	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.11.2021 22:21	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.11.2021 22:21	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.11.2021 22:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.11.2021 22:21		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.11.2021 22:21		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-74 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-019

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.1	10.1	mg/kg	01.11.2021 15:59		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1

Surrogate

1-Chlorooctane

Cas Number 111-85-3

% Recovery 113

Units %

Limits 70-135

Analysis Date 01.12.2021 02:04

Flag

o-Terphenyl

Cas Number 84-15-1

% Recovery 117

Units %

Limits 70-135

Analysis Date 01.12.2021 02:04



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-74 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-019

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.11.2021 22:44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.11.2021 22:44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.11.2021 22:44	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.11.2021 22:44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.11.2021 22:44	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.11.2021 22:44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.11.2021 22:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.11.2021 22:44		
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.11.2021 22:44		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-75 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-020

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 13:00

% Moisture:

Seq Number: 3147503

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.0	9.94	mg/kg	01.11.2021 16:04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147476

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.12.2021 02:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.12.2021 02:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.12.2021 02:24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.12.2021 02:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	01.12.2021 02:24		
o-Terphenyl	84-15-1	98	%	70-135	01.12.2021 02:24		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-75 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-020

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:27

% Moisture:

Seq Number: 3147485

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 23:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 23:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 23:06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 23:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 23:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 23:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 23:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.11.2021 23:06		
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.11.2021 23:06		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-76 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-021

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.9	10.0	mg/kg	01.11.2021 16:40		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.11.2021 19:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-135	01.11.2021 19:09		
o-Terphenyl	84-15-1	98	%	70-135	01.11.2021 19:09		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-76 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-021

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 14:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 14:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 14:55	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 14:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 14:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 14:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 14:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	70-130	01.11.2021 14:55		
1,4-Difluorobenzene	540-36-3	97	%	70-130	01.11.2021 14:55		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-77 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-022

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	01.11.2021 16:58	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.11.2021 20:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.11.2021 20:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.11.2021 20:09	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.11.2021 20:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	01.11.2021 20:09	
o-Terphenyl	84-15-1	114	%	70-135	01.11.2021 20:09	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-77 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-022

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 15:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 15:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 15:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.11.2021 15:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 15:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 15:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 15:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	01.11.2021 15:18		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.11.2021 15:18		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-78 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-023

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.6	10.1	mg/kg	01.11.2021 17:04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.11.2021 20:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.11.2021 20:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.11.2021 20:29	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.11.2021 20:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.11.2021 20:29	
o-Terphenyl	84-15-1	98	%	70-135	01.11.2021 20:29	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-78 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-023

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.11.2021 15:40	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.11.2021 15:40	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.11.2021 15:40	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.11.2021 15:40	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.11.2021 15:40	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.11.2021 15:40	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.11.2021 15:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.11.2021 15:40		
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.11.2021 15:40		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-11 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-024

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.3	10.0	mg/kg	01.11.2021 17:10		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.4	50.4	mg/kg	01.11.2021 20:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.4	50.4	mg/kg	01.11.2021 20:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.4	50.4	mg/kg	01.11.2021 20:49	U	1
Total TPH	PHC635	<50.4	50.4	mg/kg	01.11.2021 20:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	125	%	70-135	01.11.2021 20:49		
o-Terphenyl	84-15-1	116	%	70-135	01.11.2021 20:49		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-11 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-024

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 16:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 16:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 16:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.11.2021 16:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 16:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 16:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 16:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	01.11.2021 16:03		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.11.2021 16:03		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-12 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-025

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.2	9.96	mg/kg	01.11.2021 17:16		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.11.2021 21:09	U	1

Surrogate

1-Chlorooctane

Cas Number

111-85-3

% Recovery

118

Units

%

Limits

70-135

Analysis Date

01.11.2021 21:09

Flag

o-Terphenyl

84-15-1

104

%

70-135

01.11.2021 21:09



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-12 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-025

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 16:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 16:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 16:25	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	01.11.2021 16:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 16:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 16:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 16:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.11.2021 16:25		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.11.2021 16:25		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-13 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-026

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.7	10.0	mg/kg	01.11.2021 17:34		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.11.2021 21:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.11.2021 21:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.11.2021 21:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.11.2021 21:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	117	%	70-135	01.11.2021 21:29		
o-Terphenyl	84-15-1	101	%	70-135	01.11.2021 21:29		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-13 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-026

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 16:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 16:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 16:47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.11.2021 16:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 16:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 16:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 16:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	01.11.2021 16:47		
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.11.2021 16:47		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-14 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-027

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.5	9.94	mg/kg	01.11.2021 17:40		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.11.2021 21:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.11.2021 21:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.11.2021 21:48	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.11.2021 21:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	01.11.2021 21:48		
o-Terphenyl	84-15-1	111	%	70-135	01.11.2021 21:48		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-14 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-027

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.11.2021 17:10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.11.2021 17:10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.11.2021 17:10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.11.2021 17:10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.11.2021 17:10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.11.2021 17:10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.11.2021 17:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	01.11.2021 17:10		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.11.2021 17:10		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-15 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-028

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.3	9.90	mg/kg	01.11.2021 17:46		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.11.2021 22:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.11.2021 22:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.11.2021 22:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.11.2021 22:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	01.11.2021 22:08		
o-Terphenyl	84-15-1	106	%	70-135	01.11.2021 22:08		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-15 (1')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-028

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.11.2021 17:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.11.2021 17:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.11.2021 17:35	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.11.2021 17:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.11.2021 17:35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.11.2021 17:35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.11.2021 17:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.11.2021 17:35		
4-Bromofluorobenzene	460-00-4	91	%	70-130	01.11.2021 17:35		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-16 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-029

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.3	10.0	mg/kg	01.11.2021 17:52		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.11.2021 22:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	01.11.2021 22:28	
o-Terphenyl	84-15-1	106	%	70-135	01.11.2021 22:28	



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-16 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-029

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.11.2021 18:44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.11.2021 18:44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.11.2021 18:44	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.11.2021 18:44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.11.2021 18:44	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.11.2021 18:44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.11.2021 18:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	01.11.2021 18:44		
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.11.2021 18:44		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-17 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-030

Date Collected: 01.08.2021 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 14:16

% Moisture:

Seq Number: 3147504

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.5	10.1	mg/kg	01.11.2021 17:58		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: CAC

Analyst: CAC

Date Prep: 01.11.2021 17:00

% Moisture:

Seq Number: 3147532

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.11.2021 22:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	128	%	70-135	01.11.2021 22:48		
o-Terphenyl	84-15-1	112	%	70-135	01.11.2021 22:48		



Certificate of Analytical Results 684058

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-17 (1.5')**

Matrix: Soil

Date Received: 01.08.2021 16:43

Lab Sample Id: 684058-030

Date Collected: 01.08.2021 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.11.2021 11:30

% Moisture:

Seq Number: 3147489

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.11.2021 19:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.11.2021 19:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.11.2021 19:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.11.2021 19:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.11.2021 19:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.11.2021 19:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.11.2021 19:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.11.2021 19:09		
4-Bromofluorobenzene	460-00-4	105	%	70-130	01.11.2021 19:09		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147503

Matrix: Solid

Prep Method: E300P

Date Prep: 01.11.2021

MB Sample Id: 7718894-1-BLK

LCS Sample Id: 7718894-1-BKS

LCSD Sample Id: 7718894-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	257	103	257	103	90-110	0	20	mg/kg	01.11.2021 13:11	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147504

Matrix: Solid

Prep Method: E300P

Date Prep: 01.11.2021

MB Sample Id: 7718914-1-BLK

LCS Sample Id: 7718914-1-BKS

LCSD Sample Id: 7718914-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	256	102	258	103	90-110	1	20	mg/kg	01.11.2021 16:28	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147503

Matrix: Soil

Prep Method: E300P

Date Prep: 01.11.2021

Parent Sample Id: 684058-001

MS Sample Id: 684058-001 S

MSD Sample Id: 684058-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.5	200	207	98	208	98	90-110	0	20	mg/kg	01.11.2021 13:29	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147503

Matrix: Soil

Prep Method: E300P

Date Prep: 01.11.2021

Parent Sample Id: 684058-011

MS Sample Id: 684058-011 S

MSD Sample Id: 684058-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.6	199	214	100	216	101	90-110	1	20	mg/kg	01.11.2021 14:53	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147504

Matrix: Soil

Prep Method: E300P

Date Prep: 01.11.2021

Parent Sample Id: 684058-021

MS Sample Id: 684058-021 S

MSD Sample Id: 684058-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.9	200	212	99	212	98	90-110	0	20	mg/kg	01.11.2021 16:46	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147504

Matrix: Soil

Prep Method: E300P

Date Prep: 01.11.2021

Parent Sample Id: 684247-001

MS Sample Id: 684247-001 S

MSD Sample Id: 684247-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	25.5	202	224	98	221	99	90-110	1	20	mg/kg	01.11.2021 18:10	

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

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

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

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

Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147476

MB Sample Id: 7718945-1-BLK

Matrix: Solid

LCS Sample Id: 7718945-1-BKS

Prep Method: SW8015P

Date Prep: 01.11.2021

LCSD Sample Id: 7718945-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	1090	109	70-135	2	35	mg/kg	01.11.2021 18:29	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1100	110	70-135	4	35	mg/kg	01.11.2021 18:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	83		118		109		70-135	%	01.11.2021 18:29
o-Terphenyl	85		98		91		70-135	%	01.11.2021 18:29

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147532

MB Sample Id: 7718944-1-BLK

Matrix: Solid

LCS Sample Id: 7718944-1-BKS

Prep Method: SW8015P

Date Prep: 01.11.2021

LCSD Sample Id: 7718944-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	1090	109	70-135	5	35	mg/kg	01.11.2021 18:29	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1000	100	70-135	7	35	mg/kg	01.11.2021 18:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		112		119		70-135	%	01.11.2021 18:29
o-Terphenyl	105		106		111		70-135	%	01.11.2021 18:29

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147476

Matrix: Solid

MB Sample Id: 7718945-1-BLK

Prep Method: SW8015P

Date Prep: 01.11.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.11.2021 18:09	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147532

Matrix: Solid

MB Sample Id: 7718944-1-BLK

Prep Method: SW8015P

Date Prep: 01.11.2021

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.11.2021 18:09	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147476

Parent Sample Id: 684058-001

Matrix: Soil

MS Sample Id: 684058-001 S

Prep Method: SW8015P

Date Prep: 01.11.2021

MSD Sample Id: 684058-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1150	115	1050	105	70-135	9	35	mg/kg	01.11.2021 19:29	
Diesel Range Organics (DRO)	<50.2	1000	1120	112	1050	105	70-135	6	35	mg/kg	01.11.2021 19:29	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		115		70-135	%	01.11.2021 19:29
o-Terphenyl	112		122		70-135	%	01.11.2021 19:29

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147532

Parent Sample Id: 684058-021

Matrix: Soil

MS Sample Id: 684058-021 S

Prep Method: SW8015P

Date Prep: 01.11.2021

MSD Sample Id: 684058-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1220	122	1110	111	70-135	9	35	mg/kg	01.11.2021 19:29	
Diesel Range Organics (DRO)	<50.2	1000	1200	120	1210	121	70-135	1	35	mg/kg	01.11.2021 19:29	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		112		70-135	%	01.11.2021 19:29
o-Terphenyl	98		108		70-135	%	01.11.2021 19:29

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147485

MB Sample Id: 7718917-1-BLK

Matrix: Solid

LCS Sample Id: 7718917-1-BKS

Prep Method: SW5035A

Date Prep: 01.11.2021

LCSD Sample Id: 7718917-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.102	102	0.104	104	70-130	2	35	mg/kg	01.11.2021 12:56	
Toluene	<0.00200	0.100	0.0969	97	0.0974	97	70-130	1	35	mg/kg	01.11.2021 12:56	
Ethylbenzene	<0.00200	0.100	0.102	102	0.104	104	71-129	2	35	mg/kg	01.11.2021 12:56	
m,p-Xylenes	<0.00400	0.200	0.210	105	0.214	107	70-135	2	35	mg/kg	01.11.2021 12:56	
o-Xylene	<0.00200	0.100	0.102	102	0.104	104	71-133	2	35	mg/kg	01.11.2021 12:56	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		101		101		70-130	%	01.11.2021 12:56
4-Bromofluorobenzene	111		107		108		70-130	%	01.11.2021 12:56

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147489

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.11.2021

MB Sample Id: 7718918-1-BLK

LCS Sample Id: 7718918-1-BKS

LCSD Sample Id: 7718918-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.0961	96	70-130	5	35	mg/kg	01.11.2021 12:53	
Toluene	<0.00200	0.100	0.0974	97	0.0935	94	70-130	4	35	mg/kg	01.11.2021 12:53	
Ethylbenzene	<0.00200	0.100	0.0913	91	0.0869	87	71-129	5	35	mg/kg	01.11.2021 12:53	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.176	88	70-135	5	35	mg/kg	01.11.2021 12:53	
o-Xylene	<0.00200	0.100	0.0898	90	0.0866	87	71-133	4	35	mg/kg	01.11.2021 12:53	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		94		94		70-130	%	01.11.2021 12:53
4-Bromofluorobenzene	88		87		85		70-130	%	01.11.2021 12:53

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147485

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.11.2021

Parent Sample Id: 684058-001

MS Sample Id: 684058-001 S

MSD Sample Id: 684058-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0988	99	0.0975	98	70-130	1	35	mg/kg	01.11.2021 13:41	
Toluene	<0.00200	0.0998	0.0887	89	0.0861	86	70-130	3	35	mg/kg	01.11.2021 13:41	
Ethylbenzene	<0.00200	0.0998	0.0947	95	0.0905	91	71-129	5	35	mg/kg	01.11.2021 13:41	
m,p-Xylenes	<0.00399	0.200	0.188	94	0.180	90	70-135	4	35	mg/kg	01.11.2021 13:41	
o-Xylene	<0.00200	0.0998	0.0925	93	0.0937	94	71-133	1	35	mg/kg	01.11.2021 13:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		70-130	%	01.11.2021 13:41
4-Bromofluorobenzene	109		114		70-130	%	01.11.2021 13:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147489

Matrix: Soil

Prep Method: SW5035A

Date Prep: 01.11.2021

Parent Sample Id: 684058-021

MS Sample Id: 684058-021 S

MSD Sample Id: 684058-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.113	113	0.129	129	70-130	13	35	mg/kg	01.11.2021 13:38	
Toluene	<0.00200	0.100	0.110	110	0.124	124	70-130	12	35	mg/kg	01.11.2021 13:38	
Ethylbenzene	<0.00200	0.100	0.102	102	0.116	116	71-129	13	35	mg/kg	01.11.2021 13:38	
m,p-Xylenes	<0.00401	0.200	0.208	104	0.234	117	70-135	12	35	mg/kg	01.11.2021 13:38	
o-Xylene	<0.00200	0.100	0.101	101	0.113	113	71-133	11	35	mg/kg	01.11.2021 13:38	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		93		70-130	%	01.11.2021 13:38
4-Bromofluorobenzene	86		85		70-130	%	01.11.2021 13:38

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

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

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

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

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 1 of 3

1684058

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster			
Project Location: Lea County, NM		Project #: 212C-MD-02387	
Invoice to: EOG Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH-56 (1')	1/7/2021		X				X		1	N	X
	BH-57 (1')	1/7/2021		X				X		1	N	X
	BH-58 (1')	1/7/2021		X				X		1	N	X
	BH-59 (1')	1/7/2021		X				X		1	N	X
	BH-60 (1')	1/7/2021		X				X		1	N	X
	BH-61 (1')	1/7/2021		X				X		1	N	X
	BH-62 (1')	1/7/2021		X				X		1	N	X
	BH-63 (1')	1/7/2021		X				X		1	N	X
	BH-64 (1')	1/7/2021		X				X		1	N	X
	BH-65 (1')	1/7/2021		X				X		1	N	X

Relinquished by: <i>Eand M</i>	Date: 11/8/21	Time:	Received by: <i>Day Cuth</i>	Date: 1-8-21	Time: 1643
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B	
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride 300.0	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
Hold	

Sample Temperature: 16.5

LAB USE ONLY

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



Tetra Tech, Inc.

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

Page 2 of 3

1684058

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: (county, state) Lea County, NM		Invoice to: EOG Todd Wells	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH-66 (1')	1/7/2021		X				X		1	N	
	BH-67 (1')	1/7/2021		X				X		1	N	
	BH-68 (1')	1/7/2021		X				X		1	N	
	BH-69 (1.5')	1/8/2021		X				X		1	N	
	BH-70 (1.5')	1/8/2021		X				X		1	N	
	BH-71 (1.5')	1/8/2021		X				X		1	N	
	BH-72 (1.5')	1/8/2021		X				X		1	N	
	BH-73 (1.5')	1/8/2021		X				X		1	N	
	BH-74 (1.5')	1/8/2021		X				X		1	N	
	BH-75 (1.5')	1/8/2021		X				X		1	N	

Relinquished by: <i>Todd Wells</i> 1/8/21	Date: 1/8/21	Time:	Received by: <i>Clay Parks</i> 1-8-21	Date: 1-8-21	Time: 1643
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B	
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride 300.0	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
Hold	

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 3 of 3

684058

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster		Project #: 212C-MD-02387	
Project Location: Lea County, NM		Project #: 212C-MD-02387	
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX					PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None								
									YEAR: 2020	DATE	TIME					
	BH-76 (1.5')	1/8/2021		X				X						1	N	
	BH-77 (1.5')	1/8/2021		X				X						1	N	
	BH-78 (1.5')	1/8/2021		X				X						1	N	
	SW-11 (1')	1/8/2021		X				X						1	N	
	SW-12 (1')	1/8/2021		X				X						1	N	
	SW-13 (1')	1/8/2021		X				X						1	N	
	SW-14 (1')	1/8/2021		X				X						1	N	
	SW-15 (1')	1/8/2021		X				X						1	N	
	SW-16 (1.5')	1/8/2021		X				X						1	N	
	SW-17 (1.5')	1/8/2021		X				X						1	N	

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

ANALYSIS REQUEST (Circle or Specify Method No.)
BTEX 8021B
TPH TX1005 (Ext to C35)
TPH 8015M (GRO - DRO - ORO - MRO)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C/625
PCB's 8082 / 608
NORM
PLM (Asbestos)
Chloride 300.0
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance
TPH 8015R
Hold

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01.08.2021 04.43.00 PM

Work Order #: 684058

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)?	5.8
#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

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 01.11.2021

Checklist reviewed by:

Date: 01.08.2021

Certificate of Analysis Summary 684487



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.13.2021 10:34
Report Date: 01.14.2021 16:14
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	684487-001	684487-002	684487-003	684487-004	684487-005	684487-006
	<i>Field Id:</i>	BH-79 (1-1.5')	BH-80 (1-1.5')	BH-81 (1-1.5')	BH-82 (1-1.5')	BH-83 (1-1.5')	BH-84 (1-1.5')
	<i>Depth:</i>	1-1.5 ft	1-1.5 ft	1-1.5 ft	1-1.5 ft	1-1.5 ft	1-1.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.12.2021 00:00	01.12.2021 00:00	01.12.2021 00:00	01.12.2021 00:00	01.12.2021 00:00	01.12.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.13.2021 17:00	01.13.2021 17:00	01.13.2021 17:00	01.13.2021 17:00	01.13.2021 17:00	01.13.2021 17:00
	<i>Analyzed:</i>	01.13.2021 22:57	01.13.2021 23:20	01.13.2021 23:42	01.14.2021 00:05	01.14.2021 00:27	01.14.2021 01:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00397 0.00397	<0.00403 0.00403	<0.00401 0.00401	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.13.2021 16:30	01.13.2021 16:30	01.13.2021 16:30	01.13.2021 16:30	01.13.2021 16:30	01.13.2021 16:30
	<i>Analyzed:</i>	01.13.2021 23:18	01.13.2021 23:24	01.13.2021 23:30	01.13.2021 23:36	01.13.2021 23:42	01.13.2021 23:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		31.5 10.0	24.1 10.1	201 9.94	204 10.0	10.5 10.0	13.7 10.0
TPH By SW8015 Mod	<i>Extracted:</i>	01.13.2021 17:42	01.13.2021 17:42	01.13.2021 17:42	01.13.2021 17:42	01.13.2021 17:42	01.13.2021 17:42
	<i>Analyzed:</i>	01.13.2021 23:34	01.13.2021 23:54	01.14.2021 00:14	01.14.2021 00:34	01.14.2021 00:54	01.14.2021 01:35
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.1 50.1	<50.2 50.2	<49.8 49.8	<49.8 49.8	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.1 50.1	<50.2 50.2	<49.8 49.8	<49.8 49.8	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.1 50.1	<50.2 50.2	<49.8 49.8	<49.8 49.8	<49.9 49.9
Total TPH		<50.0 50.0	<50.1 50.1	<50.2 50.2	<49.8 49.8	<49.8 49.8	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 684487



Tetra Tech- Midland, Midland, TX

Project Name: Bear Booster

Project Id: 212C-MD-02387
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.13.2021 10:34
Report Date: 01.14.2021 16:14
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	684487-007	684487-008	684487-009	684487-010		
	Field Id:	SW-18 (1-1.5')	SW-19 (1-1.5')	SW-20 (1-1.5')	SW-21 (1-1.5')		
	Depth:	1-1.5 ft	1-1.5 ft	1-1.5 ft	1-1.5 ft		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	01.12.2021 00:00	01.12.2021 00:00	01.12.2021 00:00	01.12.2021 00:00		
BTEX by EPA 8021B	Extracted:	01.13.2021 17:00	01.13.2021 17:00	01.13.2021 17:00	01.13.2021 17:00		
	Analyzed:	01.14.2021 02:09	01.14.2021 02:32	01.14.2021 02:54	01.14.2021 03:17		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00196 0.00196	<0.00198 0.00198		
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00196 0.00196	<0.00198 0.00198		
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00196 0.00196	<0.00198 0.00198		
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00392 0.00392	<0.00397 0.00397		
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00196 0.00196	<0.00198 0.00198		
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00196 0.00196	<0.00198 0.00198		
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00196 0.00196	<0.00198 0.00198		
Inorganic Anions by EPA 300/300.1	Extracted:	01.13.2021 16:30	01.13.2021 16:30	01.13.2021 16:34	01.13.2021 16:34		
	Analyzed:	01.13.2021 23:54	01.14.2021 00:00	01.14.2021 00:36	01.14.2021 00:54		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		31.3 10.0	77.3 9.98	23.9 10.1	12.7 10.0		
TPH By SW8015 Mod	Extracted:	01.13.2021 17:42	01.13.2021 17:42	01.13.2021 17:42	01.13.2021 17:42		
	Analyzed:	01.14.2021 01:55	01.14.2021 02:15	01.14.2021 02:35	01.14.2021 02:55		
	Units/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	<50.0 50.0	<50.0 50.0		
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0		
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0		

BRL - Below Reporting Limit

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



Analytical Report 684487

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Bear Booster

212C-MD-02387

01.14.2021

Collected By: Client

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

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

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

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



01.14.2021

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **684487**

Bear Booster

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684487. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684487 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 684487****Tetra Tech- Midland, Midland, TX**

Bear Booster

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-79 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-001
BH-80 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-002
BH-81 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-003
BH-82 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-004
BH-83 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-005
BH-84 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-006
SW-18 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-007
SW-19 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-008
SW-20 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-009
SW-21 (1-1.5')	S	01.12.2021 00:00	1 - 1.5 ft	684487-010



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Bear Booster

Project ID: 212C-MD-02387
Work Order Number(s): 684487

Report Date: 01.14.2021
Date Received: 01.13.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 684487

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-79 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-001 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.5	10.0	mg/kg	01.13.2021 23:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.13.2021 23:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.13.2021 23:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.13.2021 23:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.13.2021 23:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	01.13.2021 23:34		
o-Terphenyl	84-15-1	120	%	70-135	01.13.2021 23:34		



Certificate of Analytical Results 684487

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-79 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-001

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.13.2021 22:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.13.2021 22:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.13.2021 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.13.2021 22:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.13.2021 22:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.13.2021 22:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.13.2021 22:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.13.2021 22:57		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.13.2021 22:57		



Certificate of Analytical Results 684487

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-80 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-002 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.1	10.1	mg/kg	01.13.2021 23:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.13.2021 23:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.13.2021 23:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.13.2021 23:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.13.2021 23:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	01.13.2021 23:54		
o-Terphenyl	84-15-1	114	%	70-135	01.13.2021 23:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-80 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-002

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.13.2021 23:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.13.2021 23:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.13.2021 23:20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.13.2021 23:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.13.2021 23:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.13.2021 23:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.13.2021 23:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	129	%	70-130	01.13.2021 23:20		
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.13.2021 23:20		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-81 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-003 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	201	9.94	mg/kg	01.13.2021 23:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.14.2021 00:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.14.2021 00:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.14.2021 00:14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.14.2021 00:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-135	01.14.2021 00:14		
o-Terphenyl	84-15-1	104	%	70-135	01.14.2021 00:14		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-81 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-003

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.13.2021 23:42	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.13.2021 23:42	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.13.2021 23:42	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.13.2021 23:42	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.13.2021 23:42	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.13.2021 23:42	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.13.2021 23:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.13.2021 23:42		
4-Bromofluorobenzene	460-00-4	127	%	70-130	01.13.2021 23:42		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-82 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-004 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	10.0	mg/kg	01.13.2021 23:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.14.2021 00:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.14.2021 00:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.14.2021 00:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.14.2021 00:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	01.14.2021 00:34		
o-Terphenyl	84-15-1	116	%	70-135	01.14.2021 00:34		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-82 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-004

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.14.2021 00:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.14.2021 00:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.14.2021 00:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.14.2021 00:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.14.2021 00:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.14.2021 00:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.14.2021 00:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.14.2021 00:05		
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.14.2021 00:05		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-83 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-005 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.5	10.0	mg/kg	01.13.2021 23:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.14.2021 00:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.14.2021 00:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.14.2021 00:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.14.2021 00:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	123	%	70-135	01.14.2021 00:54		
o-Terphenyl	84-15-1	108	%	70-135	01.14.2021 00:54		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-83 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-005

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.14.2021 00:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.14.2021 00:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.14.2021 00:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.14.2021 00:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.14.2021 00:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.14.2021 00:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.14.2021 00:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.14.2021 00:27		
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.14.2021 00:27		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-84 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-006 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.7	10.0	mg/kg	01.13.2021 23:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.14.2021 01:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.14.2021 01:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.14.2021 01:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.14.2021 01:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	01.14.2021 01:35	
o-Terphenyl	84-15-1	104	%	70-135	01.14.2021 01:35	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **BH-84 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-006

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.14.2021 01:47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.14.2021 01:47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.14.2021 01:47	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.14.2021 01:47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.14.2021 01:47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.14.2021 01:47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.14.2021 01:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.14.2021 01:47	
1,4-Difluorobenzene	540-36-3	113	%	70-130	01.14.2021 01:47	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-18 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-007 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.3	10.0	mg/kg	01.13.2021 23:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.14.2021 01:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.14.2021 01:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.14.2021 01:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.14.2021 01:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	01.14.2021 01:55		
o-Terphenyl	84-15-1	98	%	70-135	01.14.2021 01:55		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-18 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-007

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.14.2021 02:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.14.2021 02:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.14.2021 02:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.14.2021 02:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.14.2021 02:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.14.2021 02:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.14.2021 02:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.14.2021 02:09		
1,4-Difluorobenzene	540-36-3	102	%	70-130	01.14.2021 02:09		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-19 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-008 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:30 % Moisture:
 Seq Number: 3147753 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.3	9.98	mg/kg	01.14.2021 00:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.14.2021 02:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.14.2021 02:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.14.2021 02:15	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.14.2021 02:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	01.14.2021 02:15		
o-Terphenyl	84-15-1	104	%	70-135	01.14.2021 02:15		



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-19 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-008

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:
Basis: Wet Weight

Seq Number: 3147761

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.14.2021 02:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.14.2021 02:32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.14.2021 02:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.14.2021 02:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.14.2021 02:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.14.2021 02:32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.14.2021 02:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.14.2021 02:32	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.14.2021 02:32	



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Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-20 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-009 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:34 % Moisture:
 Seq Number: 3147754 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.9	10.1	mg/kg	01.14.2021 00:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.14.2021 02:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.14.2021 02:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.14.2021 02:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.14.2021 02:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	01.14.2021 02:35	
o-Terphenyl	84-15-1	106	%	70-135	01.14.2021 02:35	



Certificate of Analytical Results 684487

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-20 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-009

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00196	0.00196	mg/kg	01.14.2021 02:54	U	1
Toluene	108-88-3	<0.00196	0.00196	mg/kg	01.14.2021 02:54	U	1
Ethylbenzene	100-41-4	<0.00196	0.00196	mg/kg	01.14.2021 02:54	U	1
m,p-Xylenes	179601-23-1	<0.00392	0.00392	mg/kg	01.14.2021 02:54	U	1
o-Xylene	95-47-6	<0.00196	0.00196	mg/kg	01.14.2021 02:54	U	1
Total Xylenes	1330-20-7	<0.00196	0.00196	mg/kg	01.14.2021 02:54	U	1
Total BTEX		<0.00196	0.00196	mg/kg	01.14.2021 02:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.14.2021 02:54		
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.14.2021 02:54		



Certificate of Analytical Results 684487

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-21 (1-1.5')** Matrix: Soil Date Received: 01.13.2021 10:34
 Lab Sample Id: 684487-010 Date Collected: 01.12.2021 00:00 Sample Depth: 1 - 1.5 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.13.2021 16:34 % Moisture:
 Seq Number: 3147754 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.7	10.0	mg/kg	01.14.2021 00:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: CAC
 Analyst: CAC Date Prep: 01.13.2021 17:42 % Moisture:
 Seq Number: 3147803 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.14.2021 02:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.14.2021 02:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.14.2021 02:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.14.2021 02:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	01.14.2021 02:55	
o-Terphenyl	84-15-1	104	%	70-135	01.14.2021 02:55	



Certificate of Analytical Results 684487

Tetra Tech- Midland, Midland, TX

Bear Booster

Sample Id: **SW-21 (1-1.5')**

Matrix: Soil

Date Received: 01.13.2021 10:34

Lab Sample Id: 684487-010

Date Collected: 01.12.2021 00:00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.13.2021 17:00

% Moisture:

Seq Number: 3147761

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.14.2021 03:17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.14.2021 03:17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.14.2021 03:17	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.14.2021 03:17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.14.2021 03:17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.14.2021 03:17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.14.2021 03:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.14.2021 03:17		
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.14.2021 03:17		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Bear Booster

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147753

Matrix: Solid

Prep Method: E300P

Date Prep: 01.13.2021

MB Sample Id: 7719119-1-BLK

LCS Sample Id: 7719119-1-BKS

LCSD Sample Id: 7719119-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	252	101	253	101	90-110	0	20	mg/kg	01.13.2021 21:07	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147754

Matrix: Solid

Prep Method: E300P

Date Prep: 01.13.2021

MB Sample Id: 7719121-1-BLK

LCS Sample Id: 7719121-1-BKS

LCSD Sample Id: 7719121-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	251	100	90-110	0	20	mg/kg	01.14.2021 00:24	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147753

Matrix: Soil

Prep Method: E300P

Date Prep: 01.13.2021

Parent Sample Id: 684466-002

MS Sample Id: 684466-002 S

MSD Sample Id: 684466-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	82.2	199	284	101	286	102	90-110	1	20	mg/kg	01.14.2021 21:25	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147753

Matrix: Soil

Prep Method: E300P

Date Prep: 01.13.2021

Parent Sample Id: 684466-012

MS Sample Id: 684466-012 S

MSD Sample Id: 684466-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.2	202	236	98	237	98	90-110	0	20	mg/kg	01.13.2021 22:49	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147754

Matrix: Soil

Prep Method: E300P

Date Prep: 01.13.2021

Parent Sample Id: 684487-009

MS Sample Id: 684487-009 S

MSD Sample Id: 684487-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.9	198	220	99	224	99	90-110	2	20	mg/kg	01.14.2021 00:42	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3147754

Matrix: Soil

Prep Method: E300P

Date Prep: 01.13.2021

Parent Sample Id: 684604-006

MS Sample Id: 684604-006 S

MSD Sample Id: 684604-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3620	202	3820	99	3840	109	90-110	1	20	mg/kg	01.14.2021 02:06	

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147803

MB Sample Id: 7719124-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.13.2021

LCS Sample Id: 7719124-1-BKS

LCSD Sample Id: 7719124-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1010	101	1110	111	70-135	9	35	mg/kg	01.13.2021 20:31	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1180	118	70-135	14	35	mg/kg	01.13.2021 20:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		105		106		70-135	%	01.13.2021 20:31
o-Terphenyl	112		101		102		70-135	%	01.13.2021 20:31

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147803

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.13.2021

MB Sample Id: 7719124-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.13.2021 20:11	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3147803

Matrix: Soil

Prep Method: SW8015P

Date Prep: 01.13.2021

Parent Sample Id: 684466-009

MS Sample Id: 684466-009 S

MSD Sample Id: 684466-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1210	120	1130	113	70-135	7	35	mg/kg	01.13.2021 21:32	
Diesel Range Organics (DRO)	<50.3	1010	1220	121	1110	111	70-135	9	35	mg/kg	01.13.2021 21:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		112		70-135	%	01.13.2021 21:32
o-Terphenyl	98		107		70-135	%	01.13.2021 21:32

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147761

Matrix: Solid

Prep Method: SW5035A

Date Prep: 01.13.2021

MB Sample Id: 7719116-1-BLK

LCS Sample Id: 7719116-1-BKS

LCSD Sample Id: 7719116-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.102	102	70-130	8	35	mg/kg	01.13.2021 19:00	
Toluene	<0.00200	0.100	0.100	100	0.0931	93	70-130	7	35	mg/kg	01.13.2021 19:00	
Ethylbenzene	<0.00200	0.100	0.104	104	0.0949	95	71-129	9	35	mg/kg	01.13.2021 19:00	
m,p-Xylenes	<0.00400	0.200	0.215	108	0.198	99	70-135	8	35	mg/kg	01.13.2021 19:00	
o-Xylene	<0.00200	0.100	0.104	104	0.0984	98	71-133	6	35	mg/kg	01.13.2021 19:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		106		100		70-130	%	01.13.2021 19:00
4-Bromofluorobenzene	109		116		112		70-130	%	01.13.2021 19:00

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

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

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

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



Tetra Tech- Midland

Bear Booster

Analytical Method: BTEX by EPA 8021B

Seq Number: 3147761

Parent Sample Id: 684466-009

Matrix: Soil

MS Sample Id: 684466-009 S

Prep Method: SW5035A

Date Prep: 01.13.2021

MSD Sample Id: 684466-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.101	101	0.104	104	70-130	3	35	mg/kg	01.13.2021 19:45	
Toluene	<0.00200	0.0998	0.0896	90	0.0958	96	70-130	7	35	mg/kg	01.13.2021 19:45	
Ethylbenzene	<0.00200	0.0998	0.0898	90	0.0930	93	71-129	4	35	mg/kg	01.13.2021 19:45	
m,p-Xylenes	<0.00399	0.200	0.183	92	0.190	95	70-135	4	35	mg/kg	01.13.2021 19:45	
o-Xylene	<0.00200	0.0998	0.0931	93	0.0949	95	71-133	2	35	mg/kg	01.13.2021 19:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		99		70-130	%	01.13.2021 19:45
4-Bromofluorobenzene	114		114		70-130	%	01.13.2021 19:45

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

501 West Wall Street, Ste 100
Midland, Texas 79701

Tel (432) 682-4559

Fax (432) 682-3946

Page 1 of 1

284487

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Bear Booster			
Project Location: Lea County, NM		Project #: 212C-MD-02387	
Invoice to: EOG Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE			None
	BH-79 (1-1.5')	1/12/2021		X			X			1	N	
	BH-80 (1-1.5')	1/12/2021		X			X			1	N	
	BH-81 (1-1.5')	1/12/2021		X			X			1	N	
	BH-82 (1-1.5')	1/12/2021		X			X			1	N	
	BH-83 (1-1.5')	1/12/2021		X			X			1	N	
	BH-84 (1-1.5')	1/12/2021		X			X			1	N	
	SW-18 (1-1.5')	1/12/2021		X			X			1	N	
	SW-19 (1-1.5')	1/12/2021		X			X			1	N	
	SW-20 (1-1.5')	1/12/2021		X			X			1	N	
	SW-21 (1-1.5')	1/12/2021		X			X			1	N	

Received by: <i>Mike Carmona</i>	Date: 1/13/21	Time: 10:34
Received by: <i>Cecilia</i>	Date: 1/13/21	Time: 10:34
Received by:	Date:	Time:

Received by:	Date:	Time:
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ORIGINAL COPY

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride 300.0	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
Hold	

LAB USE ONLY

REMARKS:

STANDARD

☒ RUSH: Same Day 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature

0.4/0.2

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01.13.2021 10.34.00 AM

Work Order #: 684487

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 *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

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 01.13.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.14.2021

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 43683

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 43683
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	9/21/2021