

## SITE INFORMATION

### Report Type: Closure Report nAPP2304532508

#### 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:	32.080277			-103.530642		
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:	1/27/2023
Type Release:	Produced Water
Source of Contamination:	Transfer Pump
Fluid Released:	150 bbl water
Fluids Recovered:	146 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:	<a href="mailto:Todd_Wells@eogresources.com">Todd_Wells@eogresources.com</a>		<a href="mailto:clair.gonzales@tetrattech.com">clair.gonzales@tetrattech.com</a>

#### 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



November 13, 2023

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

**RE: Closure Report  
EOG Resources  
Bear Booster  
Lea County, New Mexico  
nAPP2304532508**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release that occurred at the Bear Booster, Unit M, Section 36, Township 25 South, Range 33 East, Lea County, New Mexico (Site). The spill site coordinates are 32.080277°, -103.530642°. The site location is shown on **Figures 1 and 2**.

## **Background**

According to the State of New Mexico C-141 Initial Report, the release at the Bear Booster was caused by failed bearings at the pump, causing the release of 150 bbls of produced water. The release was contained to the pad, impacting an area of 225' X 67'. Additionally, approximately 146 bbls of fluids were recovered. On January 27, 2023, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

## **Site Characterization**

### Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst area. The NFHL Map and USGS Mapper are shown in **Appendix B**.

### Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined



municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

### Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the two closest water wells within a 1 ½ mile radius of the Site. The well reported on the USGS National Water Information System reports a total depth of 360 ft bgs with water level measured at 176.81 ft bgs and is approximately 1.48 miles of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 220 ft bgs and measured water level of 160 ft bgs and is approximately 1.34 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
1.48 Miles	1/16/2013	USGS	360'	176.81'
1.34 Miles	12/31/1949	NMOSE	220'	160'

### Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL beyond the top 4.0' of soil, for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 600 mg/kg.

### Site Assessment Activities

Tetra Tech conducted site assessment activities on February 3, 2023. A total of six (6) auger holes (AH-1 through AH-6) were installed to total depths ranging from 1.5 ft bgs to 4.5 ft bgs to attempt to assess and vertically delineate the impacted the area. Additionally, a total of seven (7) horizontals (H-1 through H-7) were installed to total depths of 0.5 ft bgs, to horizontally delineate the impact. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratory in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.



Referring to Table 1, auger holes (AH-1 through AH-5) indicated chloride concentrations above RRALs, with concentrations ranging from 672 mg/kg to 6,580 mg/kg, at depths ranging from surface to 3.5 ft bgs, and showed vertical delineation at depths ranging from 1.5 ft bgs to 4.5 ft bgs. Auger hole (AH-6) did not indicate chloride concentrations above RRALs. Additionally, all auger holes (AH-1 through AH-6) indicated benzene, BTEX, and TPH concentrations below laboratory reporting limits. Horizontals (H-1 through H-8) did not indicate benzene, BTEX, TPH, or chloride concentrations above RRALs.

### Remediation Activities

Tetra Tech conducted remediation activities from March 20, 2023 through June 8, 2023. The areas of impact were remediated to depths ranging from 0.5 ft bgs to 4.5 ft bgs. Additionally, a superficial 0.5' scrape was completed on the remaining areas of surficial staining that did not indicate exceedances for housekeeping purposes. The remediation areas and depths are shown on **Figure 4**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of sidewalls and floor of the excavation are collected. A total of twenty-two (22) bottom holes (BH-1 through BH-22) were collected and a total of twenty-four (24) sidewalls (SW-1 through SW-24) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico and Eurofins Laboratory in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0 and EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix C**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

### Conclusions

Based on the C-141 (nAPP2304532508) and information provided by EOG, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the *OCD Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed. Based on Tetra Tech assessment activities, laboratory results indicated chloride concentrations in auger holes (AH-1 through AH-5) exceeded RRALs and required remediation.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 477 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below





the RRALs for all constituents. Based on this information, it is recommended that the remediated pad at this Site requires no further action. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

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

Brittany Long,  
Project Manager

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

Clair Gonzales, P.G.  
Senior Project Manager



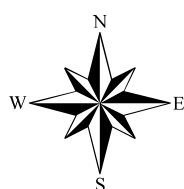
## Figures

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▲ SITE LOCATION



0 10,000 20,000  
Approximate Scale in Feet



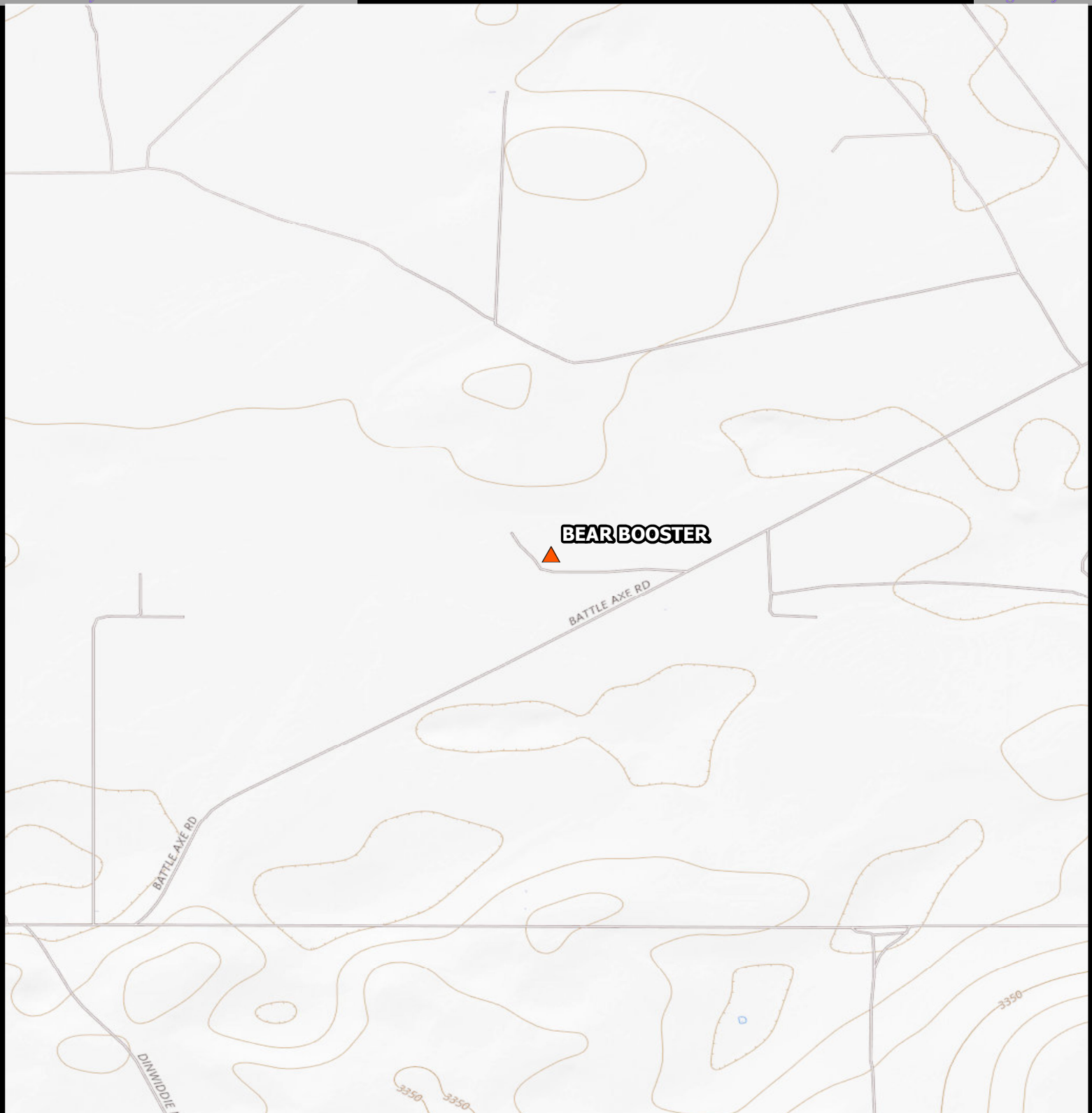
**FIGURE 1**  
**OVERVIEW MAP**  
**BEAR BOOSTER**  
**LEA COUNTY, NEW MEXICO**  
32.080306°, -103.530670°

Project: 212C-MD-02763

Date: 7/11/2022

Name: EOG - Bear Booster - Fig1





▲ SITE LOCATION

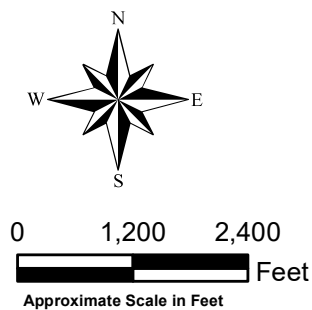


FIGURE 2  
TOPOGRAPHIC MAP  
BEAR BOOSTER  
LEA COUNTY, NEW MEXICO  
32.080306°, -103.530670°

Project: 212C-MD-02763

Date: 7/11/2022

Name: EOG - Bear Booster - Fig 2

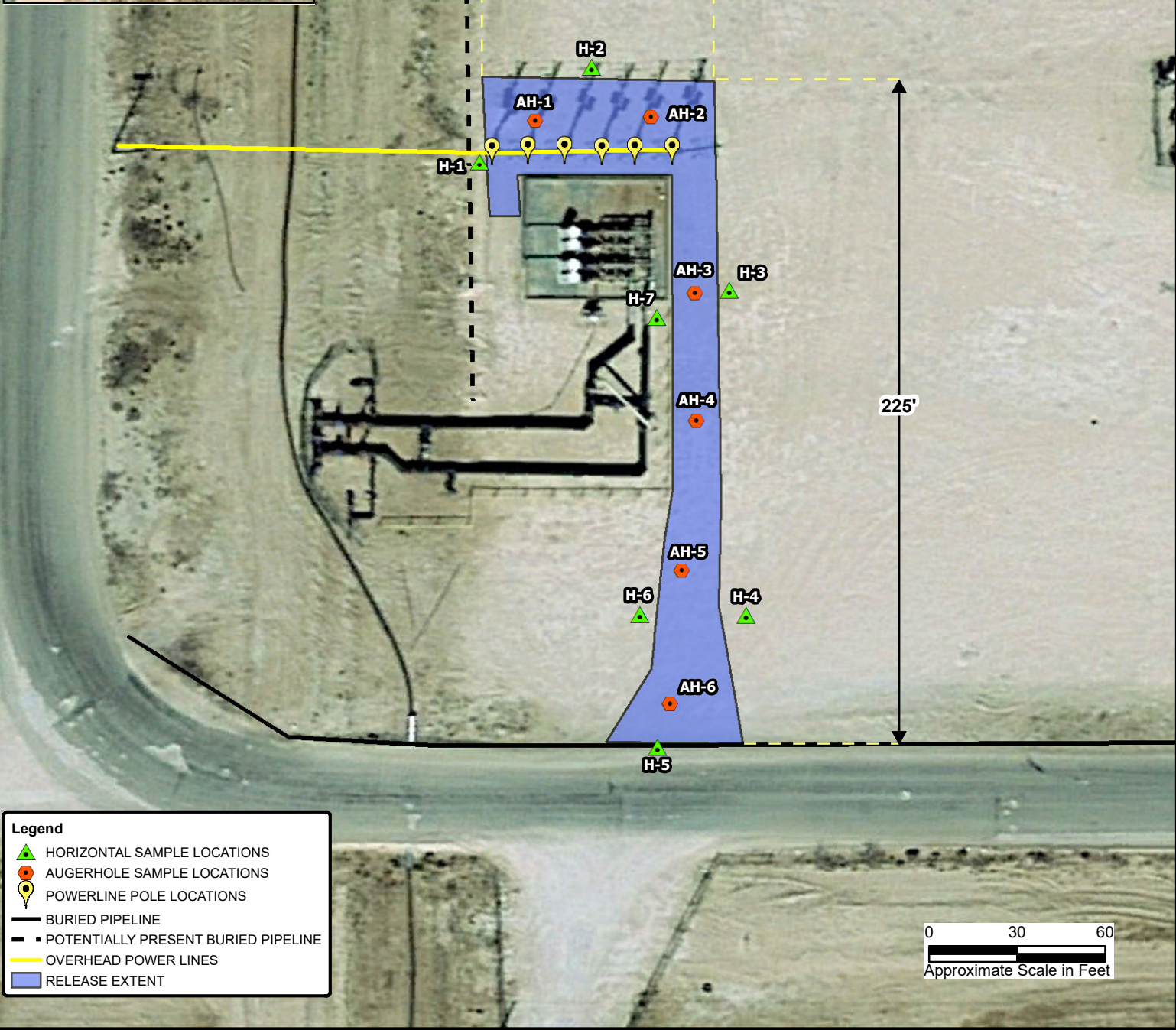




NORTH

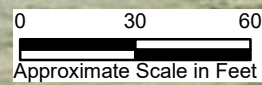


SITE LOCATOR MAP



**Legend**

- ▲ HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- POWERLINE POLE LOCATIONS
- BURIED PIPELINE
- - - POTENTIALLY PRESENT BURIED PIPELINE
- OVERHEAD POWER LINES
- RELEASE EXTENT



## EOG RESOURCES

### SITE ASSESSMENT MAP

### BEAR BOOSTER JANUARY 2023 RELEASE

LEA COUNTY, NEW MEXICO  
(32.080194°, -103.530651°)

PROJECT NO.: 212C-MD-03018

DATE: APRIL 20, 2023

DESIGNED BY: EMF

Figure No.

**3**



**TETRA TECH**

[www.tetrattech.com](http://www.tetrattech.com)

901 West Wall Street, Suite 100  
Midland, Texas 79701  
Phone: (432) 682-4559  
Fax: (432) 682-3946

Document Path: C:\Users\LORES\Documents\Projects\EOG\EOG - 03018 Bear Booster January 2023 Release\GIS\MXD\Figure 3 - 03018 - EOG - Bear Booster Jan 2023.mxd



NORTH



SITE LOCATOR MAP

LINED METAL CONTAINMENT

Legend

- |                             |                 |
|-----------------------------|-----------------|
| SIDEWALL SAMPLE LOCATION    | 6" EXCAVATION   |
| BOTTOMHOLE SAMPLE LOCATIONS | 9" EXCAVATION   |
| POWERLINE POLES             | 1.5' EXCAVATION |
| OVERHEAD ELECTRICAL LINES   | 2' EXCAVATION   |
| EOG BURIED PIPELINES        | 3' EXCAVATION   |
| SURFACE STEEL PIPELINES     | 3.5' EXCAVATION |
| SURFACE POLYLINES           | 4' EXCAVATION   |
| FENCING                     | 4.5' EXCAVATION |

0 20 40  
Approximate Scale in Feet

EOG RESOURCES

EXCAVATION DEPTH AND AREA MAP  
BEAR BOOSTER JANUARY 2023 RELEASE

LEA COUNTY, NEW MEXICO  
(32.080194°, -103.530651°)

PROJECT NO.: 212C-MD-03018

DATE: APRIL 20, 2023

DESIGNED BY: EMF

Figure No.

4



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## Tables

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**Table 1**  
**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						
RRALs							100 mg/kg	10 mg/kg					50 mg/kg	600 mg/kg
AH-1	2/3/2023	0-1'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	6,580
	2/3/2023	1-1.5'	-	X	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,080
	2/3/2023	2-2.5'	-	X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,190
	2/3/2023	3-3.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	700
	2/3/2023	4-4.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	544
AH-2	2/3/2023	0-1'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,510
	2/3/2023	1-1.5'	-	X	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	672
	2/3/2023	2-2.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	533
	2/3/2023	3-3.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	494
	2/3/2023	4-4.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	370
AH-3	2/3/2023	0-1'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,680
	2/3/2023	1-1.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,300
	2/3/2023	2-2.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	520
	2/3/2023	3-3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	425
AH-4	2/3/2023	0-1'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,680
	2/3/2023	1-1.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	231
AH-5	2/3/2023	0-1'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	529
	2/3/2023	1-1.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	533
	2/3/2023	2-2.5'	-	X	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	798
	2/3/2023	3-3.5'	-	X	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,120
	2/3/2023	4-4.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	276
AH-6	2/3/2023	0-1'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	410
	2/3/2023	1-1.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	368
	2/3/2023	2-2.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	479

Table 1  
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						
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
H-1	2/3/2023	0-0.5	X	-	<50.0	62.6	<50.0	62.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	525
H-2	2/3/2023	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	150
H-3	2/3/2023	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	116
H-4	2/3/2023	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	55.2
H-5	2/3/2023	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	62.3
H-6	2/3/2023	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	17.0
H-7	2/3/2023	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	13.3

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

**Bolded cells represent a detected concentration above the respective screening value.**

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedance

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						
RRALs									100 mg/kg	10 mg/kg	50 mg/kg			600 mg/kg
BH-1	3/21/2023	4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-2	3/20/2023	4.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-3	3/20/2023	4.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-4	3/21/2023	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
BH-5	3/21/2023	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
BH-6	3/21/2023	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
BH-7	3/21/2023	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-8	3/22/2023	2.0	X	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-9	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BH-10	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-11	3/22/2023	3.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-12	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-13	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
BH-14	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
BH-15	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-16	3/22/2023	2.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
BH-17	3/22/2023	1.5	4	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
BH-18	3/23/2023	0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
BH-19	3/23/2023	0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
BH-20	3/23/2023	0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-21	3/23/2023	0.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,550
	6/8/2023	0.75	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	140
BH-22	3/23/2023	0.5	-	X	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,490
	6/8/2023	3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	124

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						
RRALs							100 mg/kg	10 mg/kg					50 mg/kg	600 mg/kg
SW-1	3/20/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	3/20/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-3	3/21/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-4	3/22/2023	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-5	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-6	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
SW-7	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-8	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-9	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-10	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-11	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-12	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-13	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-14	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-15	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-16	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-17	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-18	3/22/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-19	3/23/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-20	3/23/2023	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-21	6/8/2023	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	136
SW-22	6/8/2023	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	121
SW-23	6/8/2023	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	96.9
SW-24	6/8/2023	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	121

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) *Guidelines for Remediation of Leaks, Spills, and Releases*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

**Bolded cells represent a detected concentration above the respective screening value.**

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Remediated



# Photographic Documentation

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EOG Resources  
Bear Booster  
Lea County, New Mexico



View of Remediation Activities – View South



View of Remediation Activities – View North



EOG Resources  
Bear Booster  
Lea County, New Mexico



View of Remediation Activities – View South



View of Remediation Activities – View West





# Appendix A

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C-141 Document

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department  
  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

Incident ID	nAPP2304532508
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) nAPP2304532508
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 Booster Pump
Date Release Discovered 1/27/23	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 150	Volume Recovered (bbls) 146
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The weld on the booster pump failed causing produced water to be released from the pump. Approximately 150 bbls of produced water was released around the booster pump inside and outside of the containment and on the pad with 146 bbls recovered.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? E-mail notification to the OCD Enviro Inbox on 1/27/23.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Todd Wells</u>	Title: <u>Environmental Specialist</u>
Signature: <u>Todd Wells</u>	Date: <u>2/14/23</u>
email: <u>Todd_Wells@eogresources.com</u>	Telephone: <u>(432) 686-3613</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Todd Wells Date: 11/13/23

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Shelly Wells Date: 11/13/2023

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: 11/13/23

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

### OCD Only

Received by: Shelly Wells Date: 11/13/2023

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

Closure Approved by: Scott Rodgers Date: 02/23/2024

Printed Name: Scott Rodgers Title: Environmental Specialist Adv.



## Appendix B

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Site Characterization Documents





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

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02291	1	1	2	06	26S	34E	640825	3550140* 

X

<b>Driller License:</b>		<b>Driller Company:</b>							
<b>Driller Name:</b>									
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>				12/31/1949		<b>Plug Date:</b>	
<b>Log File Date:</b>		<b>PCW Rev Date:</b>				<b>Source:</b>			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b> 15 GPM			
<b>Casing Size:</b> 6.00		<b>Depth Well:</b> 220 feet				<b>Depth Water:</b> 160 feet			

\*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.

5/20/22 10:27 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
<a href="#">C 02312</a>		CUB	LE	1	2	1	05	25S	33E	632292	3559772	150	90	60
<a href="#">C 02313</a>		CUB	LE	2	3	3	26	25S	33E	636971	3552098*	150	110	40
<a href="#">C 02373 CLW317846</a>	O	CUB	LE	2	1	1	13	25S	33E	638518	3556544*	625	185	440
<a href="#">C 02373 S</a>		CUB	LE	1	2	1	13	25S	33E	638721	3556549*	625	185	440

Average Depth to Water: **142 feet**

Minimum Depth: **90 feet**

Maximum Depth: **185 feet**

**Record Count:** 4

**Basin/County Search:**

**County:** Lea

**PLSS Search:**

**Township:** 25S

**Range:** 33E

\*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.

1/4/21 2:37 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER



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

National Water Information System: Mapper

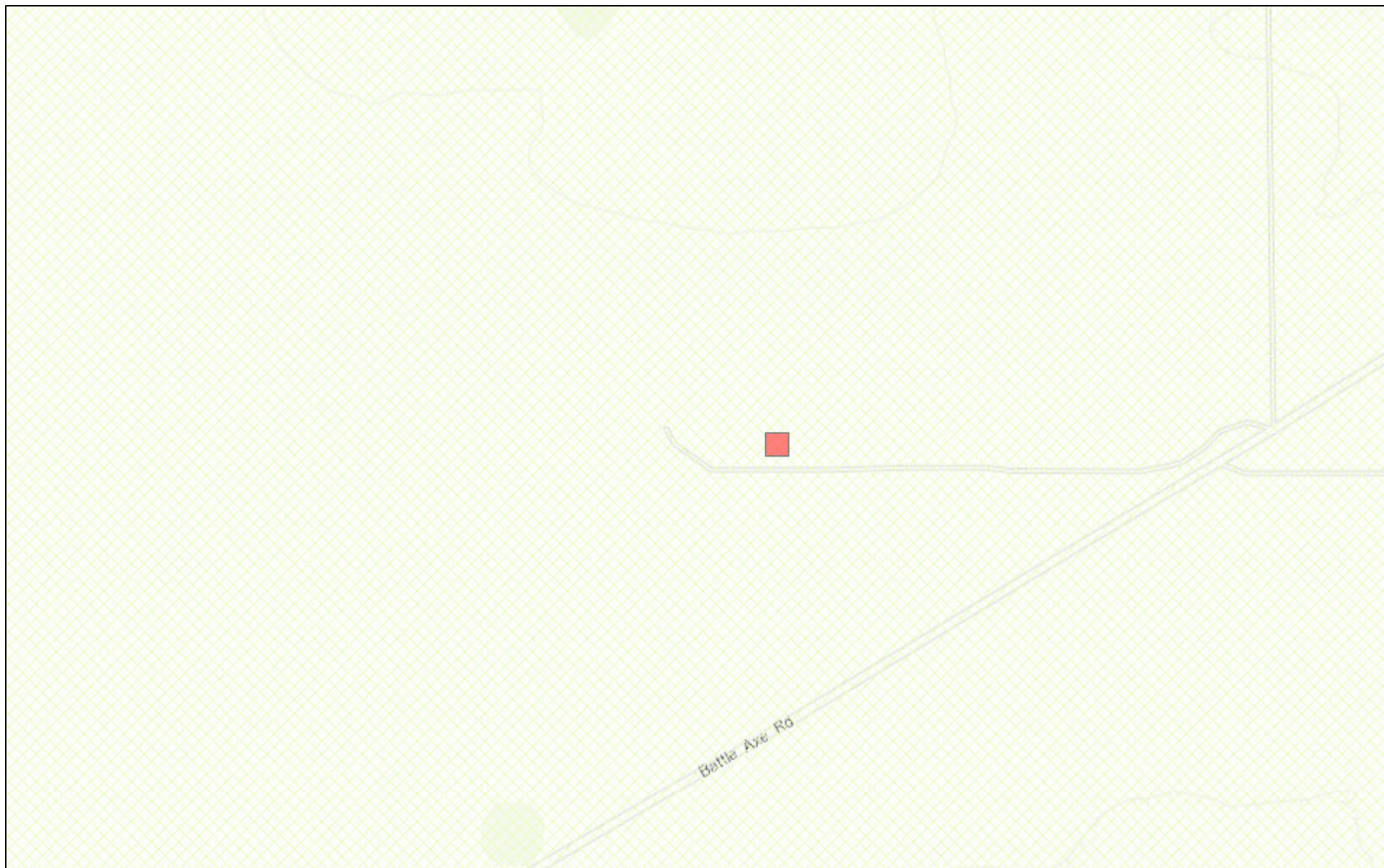
[Help](#) [Info](#)



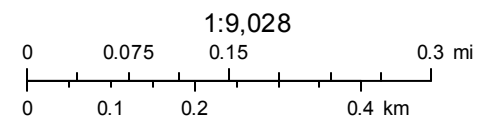
Site Information



# 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

Laboratory Reports





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brittany Long  
Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Generated 2/14/2023 12:48:32 PM

## JOB DESCRIPTION

Bear Booster  
SDG NUMBER Lea County NM

## JOB NUMBER

890-4031-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

See page two for job notes and contact information.

**Eurofins Carlsbad****Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

**Authorization**

Generated  
2/14/2023 12:48:32 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Laboratory Job ID: 890-4031-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Job ID: 890-4031-1

## Laboratory: Eurofins Carlsbad

## Narrative

Job Narrative  
890-4031-1

## Receipt

The samples were received on 2/3/2023 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 12.6°C

## Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-4031-1), H-2 (890-4031-2), H-3 (890-4031-3), H-4 (890-4031-4), H-5 (890-4031-5), H-6 (890-4031-6), H-7 (890-4031-7), AH-1 (0-1') (890-4031-8), AH-1 (1-1.5') (890-4031-9), AH-1 (2-2.5') (890-4031-10), AH-1 (3-3.5') (890-4031-11), AH-1 (4-4.5') (890-4031-12), AH-2 (0-1') (890-4031-13), AH-2 (1-1.5') (890-4031-14), AH-2 (2-2.5') (890-4031-15), AH-2 (3-3.5') (890-4031-16), AH-2 (4-4.5') (890-4031-17), AH-3 (0-1') (890-4031-18), AH-3 (1-1.5') (890-4031-19), AH-3 (2-2.5') (890-4031-20), AH-3 (3-3.5') (890-4031-21), AH-4 (0-1') (890-4031-22), AH-4 (1-1.5') (890-4031-23), AH-5 (0-1') (890-4031-24), AH-5 (1-1.5') (890-4031-25), AH-5 (2-2.5') (890-4031-26), AH-5 (3-3.5') (890-4031-27), AH-5 (4-4.5') (890-4031-28), AH-6 (0-1') (890-4031-29), AH-6 (1-1.5') (890-4031-30) and AH-6 (2-2.5') (890-4031-31).

## GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-3 (890-4031-3), H-4 (890-4031-4), H-5 (890-4031-5), H-7 (890-4031-7), AH-1 (0-1') (890-4031-8), AH-1 (1-1.5') (890-4031-9), AH-1 (3-3.5') (890-4031-11), AH-2 (0-1') (890-4031-13), AH-2 (3-3.5') (890-4031-16), AH-3 (0-1') (890-4031-18) and AH-3 (2-2.5') (890-4031-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-46010 and analytical batch 880-46086 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-4 (0-1') (890-4031-22), AH-4 (1-1.5') (890-4031-23), AH-5 (0-1') (890-4031-24), AH-5 (1-1.5') (890-4031-25), AH-5 (2-2.5') (890-4031-26), AH-5 (3-3.5') (890-4031-27), AH-5 (4-4.5') (890-4031-28), AH-6 (0-1') (890-4031-29), AH-6 (1-1.5') (890-4031-30), AH-6 (2-2.5') (890-4031-31), (CCV 880-46086/33), (890-4031-A-21-G MS) and (890-4031-A-21-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-3 (3-3.5') (890-4031-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

## GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-45802 and analytical batch 880-45951 was outside the control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: AH-3 (3-3.5') (890-4031-21), AH-4 (0-1') (890-4031-22), AH-4 (1-1.5') (890-4031-23), AH-5 (0-1') (890-4031-24), AH-5 (1-1.5') (890-4031-25), AH-5 (2-2.5') (890-4031-26), AH-5 (3-3.5') (890-4031-27), AH-5 (4-4.5') (890-4031-28), AH-6 (0-1') (890-4031-29), AH-6 (1-1.5') (890-4031-30), (890-4031-A-21-E MS) and (890-4031-A-21-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: AH-6 (2-2.5') (890-4031-31). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: H-1 (890-4031-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: H-2 (890-4031-2), H-3 (890-4031-3), H-4

## Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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**Job ID: 890-4031-1 (Continued)**

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**Laboratory: Eurofins Carlsbad (Continued)**

(890-4031-4), H-5 (890-4031-5), H-6 (890-4031-6), H-7 (890-4031-7), AH-1 (0-1') (890-4031-8), AH-1 (1-1.5') (890-4031-9) and AH-1 (2-2.5') (890-4031-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: AH-1 (3-3.5') (890-4031-11), AH-1 (4-4.5') (890-4031-12), AH-2 (0-1') (890-4031-13), AH-2 (1-1.5') (890-4031-14), AH-2 (2-2.5') (890-4031-15), AH-2 (3-3.5') (890-4031-16), AH-2 (4-4.5') (890-4031-17), AH-3 (0-1') (890-4031-18) and AH-3 (1-1.5') (890-4031-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: AH-3 (2-2.5') (890-4031-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-45705 and 880-45705 and analytical batch 880-45759 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: H-1

Lab Sample ID: 890-4031-1

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 09:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 09:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 09:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 09:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 09:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/10/23 14:06	02/11/23 09:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/10/23 14:06	02/11/23 09:26	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.6		50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 11:45	1
Diesel Range Organics (Over C10-C28)	62.6		50.0		mg/Kg		02/08/23 13:04	02/11/23 11:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	02/08/23 13:04	02/11/23 11:45	1
o-Terphenyl	71		70 - 130	02/08/23 13:04	02/11/23 11:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	525	F1	5.03		mg/Kg			02/07/23 23:24	1

Client Sample ID: H-2

Lab Sample ID: 890-4031-2

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 09:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 09:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 09:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 09:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 09:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 09:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	02/10/23 14:06	02/11/23 09:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/23 14:06	02/11/23 09:54	1

Eurofins Carlsbad

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: H-2

Lab Sample ID: 890-4031-2

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 12:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 12:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				02/08/23 13:04	02/11/23 12:53	1
o-Terphenyl	66	S1-	70 - 130				02/08/23 13:04	02/11/23 12:53	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		5.00		mg/Kg			02/07/23 23:38	1

Client Sample ID: H-3

Lab Sample ID: 890-4031-3

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 10:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 10:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				02/10/23 14:06	02/11/23 10:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/10/23 14:06	02/11/23 10:21	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 13:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 13:15	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Client Sample ID: H-3

## Lab Sample ID: 890-4031-3

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				02/08/23 13:04	02/11/23 13:15	1
o-Terphenyl	66	S1-	70 - 130				02/08/23 13:04	02/11/23 13:15	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		4.97		mg/Kg			02/07/23 23:43	1

## Client Sample ID: H-4

## Lab Sample ID: 890-4031-4

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 10:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 10:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 10:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				02/10/23 14:06	02/11/23 10:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130				02/10/23 14:06	02/11/23 10:47	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 13:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 13:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				02/08/23 13:04	02/11/23 13:37	1
o-Terphenyl	71		70 - 130				02/08/23 13:04	02/11/23 13:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2		5.05		mg/Kg			02/07/23 23:47	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: H-5

Lab Sample ID: 890-4031-5

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 11:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 14:06	02/11/23 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 11:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 14:06	02/11/23 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	02/10/23 14:06	02/11/23 11:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/10/23 14:06	02/11/23 11:14	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 13:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 13:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	02/08/23 13:04	02/11/23 13:59	1
o-Terphenyl	73		70 - 130	02/08/23 13:04	02/11/23 13:59	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.3		4.99		mg/Kg			02/07/23 23:52	1

Client Sample ID: H-6

Lab Sample ID: 890-4031-6

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 11:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 11:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 11:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 11:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 11:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/10/23 14:06	02/11/23 11:41	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/10/23 14:06	02/11/23 11:41	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: H-6

Lab Sample ID: 890-4031-6

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 14:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				02/08/23 13:04	02/11/23 14:21	1
o-Terphenyl	68	S1-	70 - 130				02/08/23 13:04	02/11/23 14:21	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.0		5.01		mg/Kg			02/08/23 00:06	1

Client Sample ID: H-7

Lab Sample ID: 890-4031-7

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/10/23 14:06	02/11/23 12:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/10/23 14:06	02/11/23 12:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/10/23 14:06	02/11/23 12:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/10/23 14:06	02/11/23 12:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/10/23 14:06	02/11/23 12:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/10/23 14:06	02/11/23 12:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				02/10/23 14:06	02/11/23 12:08	1
1,4-Difluorobenzene (Surr)	93		70 - 130				02/10/23 14:06	02/11/23 12:08	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 14:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 14:44	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: H-7

Lab Sample ID: 890-4031-7

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				02/08/23 13:04	02/11/23 14:44	1
o-Terphenyl	68	S1-	70 - 130				02/08/23 13:04	02/11/23 14:44	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		5.00		mg/Kg			02/08/23 00:11	1

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

Lab Sample ID: 890-4031-8

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/10/23 14:06	02/11/23 13:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/10/23 14:06	02/11/23 13:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/10/23 14:06	02/11/23 13:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/10/23 14:06	02/11/23 13:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/23 14:06	02/11/23 13:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/10/23 14:06	02/11/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				02/10/23 14:06	02/11/23 13:15	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/10/23 14:06	02/11/23 13:15	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 15:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 15:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				02/08/23 13:04	02/11/23 15:05	1
o-Terphenyl	82		70 - 130				02/08/23 13:04	02/11/23 15:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6580		100		mg/Kg			02/08/23 00:15	20

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-9

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 13:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 13:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 13:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 13:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 13:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	02/10/23 14:06	02/11/23 13:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/10/23 14:06	02/11/23 13:42	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 15:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	02/08/23 13:04	02/11/23 15:27	1
o-Terphenyl	73		70 - 130	02/08/23 13:04	02/11/23 15:27	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2080		25.1		mg/Kg			02/08/23 00:20	5

Client Sample ID: AH-1 (2-2.5')

Lab Sample ID: 890-4031-10

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 14:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 14:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 14:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/10/23 14:06	02/11/23 14:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 14:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/10/23 14:06	02/11/23 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	02/10/23 14:06	02/11/23 14:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/10/23 14:06	02/11/23 14:07	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-1 (2-2.5')

Lab Sample ID: 890-4031-10

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 15:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 15:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130				02/08/23 13:04	02/11/23 15:48	1
o-Terphenyl	68	S1-	70 - 130				02/08/23 13:04	02/11/23 15:48	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190		25.0		mg/Kg			02/08/23 00:25	5

Client Sample ID: AH-1 (3-3.5')

Lab Sample ID: 890-4031-11

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 15:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 15:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 15:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 15:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 15:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				02/10/23 14:06	02/11/23 15:52	1
1,4-Difluorobenzene (Surr)	87		70 - 130				02/10/23 14:06	02/11/23 15:52	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 16:32	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-1 (3-3.5')

Lab Sample ID: 890-4031-11

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				02/08/23 13:04	02/11/23 16:32	1
o-Terphenyl	68	S1-	70 - 130				02/08/23 13:04	02/11/23 16:32	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	700	F1	5.00		mg/Kg			02/08/23 00:29	1

Client Sample ID: AH-1 (4-4.5')

Lab Sample ID: 890-4031-12

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 16:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 16:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 16:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 16:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 16:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/10/23 14:06	02/11/23 16:19	1
1,4-Difluorobenzene (Surr)	96		70 - 130				02/10/23 14:06	02/11/23 16:19	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 16:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 16:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 16:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130				02/08/23 13:04	02/11/23 16:54	1
o-Terphenyl	71		70 - 130				02/08/23 13:04	02/11/23 16:54	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	544		5.02		mg/Kg			02/08/23 00:43	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-13

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 16:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 16:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 16:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 14:06	02/11/23 16:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 16:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 14:06	02/11/23 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	02/10/23 14:06	02/11/23 16:45	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/23 14:06	02/11/23 16:45	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 17:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 17:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130	02/08/23 13:04	02/11/23 17:15	1
o-Terphenyl	72		70 - 130	02/08/23 13:04	02/11/23 17:15	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2510		25.0		mg/Kg			02/08/23 00:48	5

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 890-4031-14

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 17:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 17:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 17:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/10/23 14:06	02/11/23 17:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 17:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/10/23 14:06	02/11/23 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/10/23 14:06	02/11/23 17:11	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/10/23 14:06	02/11/23 17:11	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 890-4031-14

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/08/23 13:04	02/11/23 17:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/08/23 13:04	02/11/23 17:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/08/23 13:04	02/11/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				02/08/23 13:04	02/11/23 17:37	1
o-Terphenyl	74		70 - 130				02/08/23 13:04	02/11/23 17:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	672		4.98		mg/Kg			02/08/23 01:02	1

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

Lab Sample ID: 890-4031-15

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 17:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 17:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 17:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 17:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 17:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/10/23 14:06	02/11/23 17:36	1
1,4-Difluorobenzene (Surr)	87		70 - 130				02/10/23 14:06	02/11/23 17:36	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 17:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 17:58	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-15

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				02/08/23 13:04	02/11/23 17:58	1
o-Terphenyl	81		70 - 130				02/08/23 13:04	02/11/23 17:58	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		4.95		mg/Kg			02/08/23 01:06	1

Client Sample ID: AH-2 (3-3.5')

Lab Sample ID: 890-4031-16

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 18:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				02/10/23 14:06	02/11/23 18:02	1
1,4-Difluorobenzene (Surr)	95		70 - 130				02/10/23 14:06	02/11/23 18:02	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 18:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 18:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				02/08/23 13:04	02/11/23 18:20	1
o-Terphenyl	75		70 - 130				02/08/23 13:04	02/11/23 18:20	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	494		5.00		mg/Kg			02/08/23 01:11	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-2 (4-4.5')

Lab Sample ID: 890-4031-17

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 18:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/10/23 14:06	02/11/23 18:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/10/23 14:06	02/11/23 18:28	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	02/08/23 13:04	02/11/23 18:41	1
o-Terphenyl	81		70 - 130	02/08/23 13:04	02/11/23 18:41	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		4.99		mg/Kg			02/08/23 01:16	1

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

Lab Sample ID: 890-4031-18

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 18:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/23 14:06	02/11/23 18:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/23 14:06	02/11/23 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	02/10/23 14:06	02/11/23 18:53	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/23 14:06	02/11/23 18:53	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-18

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 19:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				02/08/23 13:04	02/11/23 19:03	1
o-Terphenyl	72		70 - 130				02/08/23 13:04	02/11/23 19:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3680		25.1		mg/Kg			02/08/23 01:20	5

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

Lab Sample ID: 890-4031-19

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 19:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 19:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 19:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/23 14:06	02/11/23 19:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 19:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/23 14:06	02/11/23 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				02/10/23 14:06	02/11/23 19:19	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/10/23 14:06	02/11/23 19:19	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 19:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 19:24	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-19

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:04	02/11/23 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130				02/08/23 13:04	02/11/23 19:24	1
o-Terphenyl	78		70 - 130				02/08/23 13:04	02/11/23 19:24	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		49.7		mg/Kg			02/08/23 01:25	10

Client Sample ID: AH-3 (2-2.5')

Lab Sample ID: 890-4031-20

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 19:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 19:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 19:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 19:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/10/23 14:06	02/11/23 19:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/10/23 14:06	02/11/23 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				02/10/23 14:06	02/11/23 19:44	1
1,4-Difluorobenzene (Surr)	90		70 - 130				02/10/23 14:06	02/11/23 19:44	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/13/23 18:49	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:32	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 19:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				02/08/23 13:04	02/11/23 19:45	1
o-Terphenyl	78		70 - 130				02/08/23 13:04	02/11/23 19:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		4.98		mg/Kg			02/08/23 01:30	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-21

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 12:53	1
Toluene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 12:53	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 12:53	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		02/10/23 14:32	02/13/23 12:53	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 12:53	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		02/10/23 14:32	02/13/23 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	02/10/23 14:32	02/13/23 12:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/10/23 14:32	02/13/23 12:53	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 10:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130	02/08/23 13:10	02/10/23 10:41	1
o-Terphenyl	60	S1-	70 - 130	02/08/23 13:10	02/10/23 10:41	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	425		4.98		mg/Kg			02/08/23 02:07	1

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

Lab Sample ID: 890-4031-22

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201		mg/Kg		02/10/23 14:32	02/13/23 13:19	1
Toluene	<0.00201	U **	0.00201		mg/Kg		02/10/23 14:32	02/13/23 13:19	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		02/10/23 14:32	02/13/23 13:19	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		02/10/23 14:32	02/13/23 13:19	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		02/10/23 14:32	02/13/23 13:19	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		02/10/23 14:32	02/13/23 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	02/10/23 14:32	02/13/23 13:19	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/10/23 14:32	02/13/23 13:19	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-22

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 11:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 11:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130				02/08/23 13:10	02/10/23 11:49	1
o-Terphenyl	58	S1-	70 - 130				02/08/23 13:10	02/10/23 11:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.0		mg/Kg			02/08/23 02:21	5

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

Lab Sample ID: 890-4031-23

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 13:46	1
Toluene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 13:46	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 13:46	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		02/10/23 14:32	02/13/23 13:46	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 13:46	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		02/10/23 14:32	02/13/23 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				02/10/23 14:32	02/13/23 13:46	1
1,4-Difluorobenzene (Surr)	89		70 - 130				02/10/23 14:32	02/13/23 13:46	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 12:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 12:11	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-23

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	50	S1-	70 - 130				02/08/23 13:10	02/10/23 12:11	1
o-Terphenyl	57	S1-	70 - 130				02/08/23 13:10	02/10/23 12:11	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		4.99		mg/Kg			02/08/23 02:26	1

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

Lab Sample ID: 890-4031-24

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:12	1
Toluene	<0.00199	U *	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:12	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:12	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		02/10/23 14:32	02/13/23 14:12	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:12	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		02/10/23 14:32	02/13/23 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				02/10/23 14:32	02/13/23 14:12	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/10/23 14:32	02/13/23 14:12	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 12:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 12:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				02/08/23 13:10	02/10/23 12:32	1
o-Terphenyl	65	S1-	70 - 130				02/08/23 13:10	02/10/23 12:32	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	529		4.95		mg/Kg			02/08/23 02:31	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-25

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:39	1
Toluene	<0.00199	U **	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:39	1
Ethylbenzene	<0.00199	U **	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:39	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		02/10/23 14:32	02/13/23 14:39	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		02/10/23 14:32	02/13/23 14:39	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		02/10/23 14:32	02/13/23 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	02/10/23 14:32	02/13/23 14:39	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/10/23 14:32	02/13/23 14:39	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 12:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 12:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	50	S1-	70 - 130	02/08/23 13:10	02/10/23 12:54	1
o-Terphenyl	57	S1-	70 - 130	02/08/23 13:10	02/10/23 12:54	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	533		5.00		mg/Kg			02/08/23 02:35	1

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

Lab Sample ID: 890-4031-26

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 15:05	1
Toluene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 15:05	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 15:05	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400		mg/Kg		02/10/23 14:32	02/13/23 15:05	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 15:05	1
Xylenes, Total	<0.00400	U **	0.00400		mg/Kg		02/10/23 14:32	02/13/23 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	02/10/23 14:32	02/13/23 15:05	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/23 14:32	02/13/23 15:05	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-26

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 13:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 13:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				02/08/23 13:10	02/10/23 13:15	1
o-Terphenyl	67	S1-	70 - 130				02/08/23 13:10	02/10/23 13:15	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	798		4.97		mg/Kg			02/08/23 02:49	1

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

Lab Sample ID: 890-4031-27

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 15:30	1
Toluene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 15:30	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 15:30	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		02/10/23 14:32	02/13/23 15:30	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		02/10/23 14:32	02/13/23 15:30	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		02/10/23 14:32	02/13/23 15:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				02/10/23 14:32	02/13/23 15:30	1
1,4-Difluorobenzene (Surr)	87		70 - 130				02/10/23 14:32	02/13/23 15:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 13:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 13:36	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-27

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				02/08/23 13:10	02/10/23 13:36	1
o-Terphenyl	60	S1-	70 - 130				02/08/23 13:10	02/10/23 13:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		4.99		mg/Kg			02/08/23 02:54	1

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

Lab Sample ID: 890-4031-28

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *	0.00201		mg/Kg		02/10/23 14:32	02/13/23 15:56	1
Toluene	<0.00201	U *	0.00201		mg/Kg		02/10/23 14:32	02/13/23 15:56	1
Ethylbenzene	<0.00201	U *	0.00201		mg/Kg		02/10/23 14:32	02/13/23 15:56	1
m-Xylene & p-Xylene	<0.00402	U *	0.00402		mg/Kg		02/10/23 14:32	02/13/23 15:56	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		02/10/23 14:32	02/13/23 15:56	1
Xylenes, Total	<0.00402	U *	0.00402		mg/Kg		02/10/23 14:32	02/13/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				02/10/23 14:32	02/13/23 15:56	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/10/23 14:32	02/13/23 15:56	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 13:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 13:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130				02/08/23 13:10	02/10/23 13:58	1
o-Terphenyl	59	S1-	70 - 130				02/08/23 13:10	02/10/23 13:58	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		5.02		mg/Kg			02/08/23 02:58	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-29

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:22	1
Toluene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:22	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:22	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		02/10/23 14:32	02/13/23 16:22	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:22	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		02/10/23 14:32	02/13/23 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	02/10/23 14:32	02/13/23 16:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/23 14:32	02/13/23 16:22	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 14:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 14:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130	02/08/23 13:10	02/10/23 14:20	1
o-Terphenyl	61	S1-	70 - 130	02/08/23 13:10	02/10/23 14:20	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	410		4.95		mg/Kg			02/08/23 03:03	1

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

Lab Sample ID: 890-4031-30

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:48	1
Toluene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:48	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:48	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		02/10/23 14:32	02/13/23 16:48	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		02/10/23 14:32	02/13/23 16:48	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		02/10/23 14:32	02/13/23 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	02/10/23 14:32	02/13/23 16:48	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/10/23 14:32	02/13/23 16:48	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-30

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 14:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 14:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				02/08/23 13:10	02/10/23 14:42	1
o-Terphenyl	64	S1-	70 - 130				02/08/23 13:10	02/10/23 14:42	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		5.01		mg/Kg			02/08/23 03:08	1

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

Lab Sample ID: 890-4031-31

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		02/10/23 14:32	02/13/23 18:33	1
Toluene	<0.00198	U **	0.00198		mg/Kg		02/10/23 14:32	02/13/23 18:33	1
Ethylbenzene	<0.00198	U **	0.00198		mg/Kg		02/10/23 14:32	02/13/23 18:33	1
m-Xylene & p-Xylene	<0.00397	U **	0.00397		mg/Kg		02/10/23 14:32	02/13/23 18:33	1
o-Xylene	<0.00198	U **	0.00198		mg/Kg		02/10/23 14:32	02/13/23 18:33	1
Xylenes, Total	<0.00397	U **	0.00397		mg/Kg		02/10/23 14:32	02/13/23 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/10/23 14:32	02/13/23 18:33	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/10/23 14:32	02/13/23 18:33	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/14/23 11:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/13/23 17:08	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 15:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 15:26	1

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Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-6 (2-2.5')  
Date Collected: 02/03/23 12:00  
Date Received: 02/03/23 15:53

Lab Sample ID: 890-4031-31  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/08/23 13:10	02/10/23 15:26	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	52	S1-	70 - 130				02/08/23 13:10	02/10/23 15:26	1	
o-Terphenyl	60	S1-	70 - 130				02/08/23 13:10	02/10/23 15:26	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	479		4.97		mg/Kg			02/08/23 03:13	1	



## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-4031-1	H-1	125	93
890-4031-1 MS	H-1	123	94
890-4031-1 MSD	H-1	128	97
890-4031-2	H-2	131 S1+	91
890-4031-3	H-3	139 S1+	91
890-4031-4	H-4	134 S1+	93
890-4031-5	H-5	141 S1+	94
890-4031-6	H-6	132 S1+	94
890-4031-7	H-7	146 S1+	93
890-4031-8	AH-1 (0-1')	139 S1+	86
890-4031-9	AH-1 (1-1.5')	134 S1+	92
890-4031-10	AH-1 (2-2.5')	128	95
890-4031-11	AH-1 (3-3.5')	139 S1+	87
890-4031-12	AH-1 (4-4.5')	132 S1+	96
890-4031-13	AH-2 (0-1')	137 S1+	91
890-4031-14	AH-2 (1-1.5')	119	87
890-4031-15	AH-2 (2-2.5')	132 S1+	87
890-4031-16	AH-2 (3-3.5')	148 S1+	95
890-4031-17	AH-2 (4-4.5')	132 S1+	96
890-4031-18	AH-3 (0-1')	154 S1+	91
890-4031-19	AH-3 (1-1.5')	131 S1+	91
890-4031-20	AH-3 (2-2.5')	135 S1+	90
890-4031-21	AH-3 (3-3.5')	131 S1+	86
890-4031-21 MS	AH-3 (3-3.5')	143 S1+	97
890-4031-21 MSD	AH-3 (3-3.5')	144 S1+	95
890-4031-22	AH-4 (0-1')	151 S1+	79
890-4031-23	AH-4 (1-1.5')	145 S1+	89
890-4031-24	AH-5 (0-1')	161 S1+	92
890-4031-25	AH-5 (1-1.5')	150 S1+	95
890-4031-26	AH-5 (2-2.5')	138 S1+	91
890-4031-27	AH-5 (3-3.5')	145 S1+	87
890-4031-28	AH-5 (4-4.5')	141 S1+	79
890-4031-29	AH-6 (0-1')	154 S1+	91
890-4031-30	AH-6 (1-1.5')	133 S1+	81
890-4031-31	AH-6 (2-2.5')	137 S1+	88
LCS 880-45999/1-A	Lab Control Sample	129	95
LCS 880-46010/1-A	Lab Control Sample	130	100
LCSD 880-45999/2-A	Lab Control Sample Dup	115	93
LCSD 880-46010/2-A	Lab Control Sample Dup	128	86
MB 880-45983/5-A	Method Blank	83	86
MB 880-45999/5-A	Method Blank	83	86
MB 880-46010/5-A	Method Blank	89	85

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4031-1	H-1	62 S1-	71
890-4031-1 MS	H-1	76	76
890-4031-1 MSD	H-1	74	74
890-4031-2	H-2	58 S1-	66 S1-
890-4031-3	H-3	59 S1-	66 S1-
890-4031-4	H-4	62 S1-	71
890-4031-5	H-5	64 S1-	73
890-4031-6	H-6	58 S1-	68 S1-
890-4031-7	H-7	58 S1-	68 S1-
890-4031-8	AH-1 (0-1')	69 S1-	82
890-4031-9	AH-1 (1-1.5')	63 S1-	73
890-4031-10	AH-1 (2-2.5')	57 S1-	68 S1-
890-4031-11	AH-1 (3-3.5')	58 S1-	68 S1-
890-4031-12	AH-1 (4-4.5')	62 S1-	71
890-4031-13	AH-2 (0-1')	60 S1-	72
890-4031-14	AH-2 (1-1.5')	60 S1-	74
890-4031-15	AH-2 (2-2.5')	69 S1-	81
890-4031-16	AH-2 (3-3.5')	64 S1-	75
890-4031-17	AH-2 (4-4.5')	68 S1-	81
890-4031-18	AH-3 (0-1')	59 S1-	72
890-4031-19	AH-3 (1-1.5')	65 S1-	78
890-4031-20	AH-3 (2-2.5')	64 S1-	78
890-4031-21	AH-3 (3-3.5')	52 S1-	60 S1-
890-4031-21 MS	AH-3 (3-3.5')	55 S1-	54 S1-
890-4031-21 MSD	AH-3 (3-3.5')	56 S1-	54 S1-
890-4031-22	AH-4 (0-1')	51 S1-	58 S1-
890-4031-23	AH-4 (1-1.5')	50 S1-	57 S1-
890-4031-24	AH-5 (0-1')	60 S1-	65 S1-
890-4031-25	AH-5 (1-1.5')	50 S1-	57 S1-
890-4031-26	AH-5 (2-2.5')	60 S1-	67 S1-
890-4031-27	AH- 5 (3-3.5')	52 S1-	60 S1-
890-4031-28	AH-5 (4-4.5')	52 S1-	59 S1-
890-4031-29	AH-6 (0-1')	54 S1-	61 S1-
890-4031-30	AH-6 (1-1.5')	59 S1-	64 S1-
890-4031-31	AH-6 (2-2.5')	52 S1-	60 S1-
LCS 880-45801/2-A	Lab Control Sample	104	121
LCS 880-45802/2-A	Lab Control Sample	103	112
LCSD 880-45801/3-A	Lab Control Sample Dup	116	130
LCSD 880-45802/3-A	Lab Control Sample Dup	100	111
MB 880-45801/1-A	Method Blank	89	105
MB 880-45802/1-A	Method Blank	69 S1-	81

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-45983/5-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45983

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 10:54	02/10/23 19:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/10/23 10:54	02/10/23 19:11	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/10/23 10:54	02/10/23 19:11	1

Lab Sample ID: MB 880-45999/5-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 08:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 08:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 08:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 14:06	02/11/23 08:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:06	02/11/23 08:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 14:06	02/11/23 08:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	02/10/23 14:06	02/11/23 08:59	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/10/23 14:06	02/11/23 08:59	1

Lab Sample ID: LCS 880-45999/1-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1102		mg/Kg		110	70 - 130
Toluene	0.100	0.1173		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1186		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2309		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1219		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-45999/2-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45999

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1222		mg/Kg		122	70 - 130	10	35

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-45999/2-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45999

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1132		mg/Kg		113	70 - 130	4	35
Ethylbenzene	0.100	0.1139		mg/Kg		114	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2243		mg/Kg		112	70 - 130	3	35
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-4031-1 MS

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 45999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0990	0.1144		mg/Kg		116	70 - 130
Toluene	<0.00201	U	0.0990	0.09267		mg/Kg		94	70 - 130
Ethylbenzene	<0.00201	U	0.0990	0.09072		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1801		mg/Kg		91	70 - 130
o-Xylene	<0.00201	U	0.0990	0.09898		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-4031-1 MSD

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 45999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1257		mg/Kg		126	70 - 130	9	35
Toluene	<0.00201	U	0.0996	0.1008		mg/Kg		101	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.0996	0.09120		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1806		mg/Kg		91	70 - 130	0	35
o-Xylene	<0.00201	U	0.0996	0.1082		mg/Kg		109	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-46010/5-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:32	02/13/23 12:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:32	02/13/23 12:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:32	02/13/23 12:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/23 14:32	02/13/23 12:26	1

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-46010/5-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/23 14:32	02/13/23 12:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/23 14:32	02/13/23 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	02/10/23 14:32	02/13/23 12:26	1
1,4-Difluorobenzene (Surr)	85		70 - 130	02/10/23 14:32	02/13/23 12:26	1

Lab Sample ID: LCS 880-46010/1-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1345	*+	mg/Kg		135	70 - 130
Toluene	0.100	0.1363	*+	mg/Kg		136	70 - 130
Ethylbenzene	0.100	0.1415	*+	mg/Kg		141	70 - 130
m-Xylene & p-Xylene	0.200	0.2823	*+	mg/Kg		141	70 - 130
o-Xylene	0.100	0.1415	*+	mg/Kg		141	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-46010/2-A

Matrix: Solid

Analysis Batch: 46086

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46010

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1219		mg/Kg		122	70 - 130	10	35
Toluene	0.100	0.1231		mg/Kg		123	70 - 130	10	35
Ethylbenzene	0.100	0.1286		mg/Kg		129	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2608		mg/Kg		130	70 - 130	8	35
o-Xylene	0.100	0.1290		mg/Kg		129	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-4031-21 MS

Matrix: Solid

Analysis Batch: 46086

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

Prep Type: Total/NA

Prep Batch: 46010

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U *	0.101	0.1100		mg/Kg		109	70 - 130
Toluene	<0.00202	U *	0.101	0.1099		mg/Kg		109	70 - 130
Ethylbenzene	<0.00202	U *	0.101	0.1112		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00404	U *	0.202	0.2240		mg/Kg		111	70 - 130
o-Xylene	<0.00202	U *	0.101	0.1125		mg/Kg		112	70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-21 MS

Matrix: Solid

Analysis Batch: 46086

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

Prep Type: Total/NA

Prep Batch: 46010

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-4031-21 MSD

Matrix: Solid

Analysis Batch: 46086

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

Prep Type: Total/NA

Prep Batch: 46010

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U *	0.0996	0.1080		mg/Kg		108	70 - 130	2	35
Toluene	<0.00202	U *	0.0996	0.1113		mg/Kg		112	70 - 130	1	35
Ethylbenzene	<0.00202	U *	0.0996	0.1137		mg/Kg		114	70 - 130	2	35
m-Xylene & p-Xylene	<0.00404	U *	0.199	0.2295		mg/Kg		115	70 - 130	2	35
o-Xylene	<0.00202	U *	0.0996	0.1137		mg/Kg		114	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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

Lab Sample ID: MB 880-45801/1-A

Matrix: Solid

Analysis Batch: 46052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45801

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:04	02/11/23 09:08	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	89		70 - 130	02/08/23 13:04	02/11/23 09:08	1			
o-Terphenyl	105		70 - 130	02/08/23 13:04	02/11/23 09:08	1			

Lab Sample ID: LCS 880-45801/2-A

Matrix: Solid

Analysis Batch: 46052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	897.5		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	940.4		mg/Kg		94	70 - 130		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	121		70 - 130

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-45801/3-A

Matrix: Solid

Analysis Batch: 46052

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45801

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1058		mg/Kg		106	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1091		mg/Kg		109	70 - 130	15	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	130		70 - 130						

Lab Sample ID: 890-4031-1 MS

Matrix: Solid

Analysis Batch: 46052

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 45801

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1074		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	62.6		998	1241		mg/Kg		118	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	76		70 - 130								
o-Terphenyl	76		70 - 130								

Lab Sample ID: 890-4031-1 MSD

Matrix: Solid

Analysis Batch: 46052

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 45801

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1049		mg/Kg		101	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	62.6		997	1205		mg/Kg		115	70 - 130	3	20
										</	

Lab Sample ID: MB 880-45802/1-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 08:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 08:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/08/23 13:10	02/10/23 08:07	1

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-45802/1-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45802

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	69	S1-	70 - 130	02/08/23 13:10	02/10/23 08:07	1				
o-Terphenyl	81		70 - 130	02/08/23 13:10	02/10/23 08:07	1				

Lab Sample ID: LCS 880-45802/2-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45802

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	882.5		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	897.1		mg/Kg		90	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	112		70 - 130								

Lab Sample ID: LCSD 880-45802/3-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45802

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	895.3		mg/Kg		90	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)			1000	938.1		mg/Kg		94	70 - 130	4	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	100		70 - 130									
o-Terphenyl	111		70 - 130									

Lab Sample ID: 890-4031-21 MS

Matrix: Solid

Analysis Batch: 45951

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

Prep Type: Total/NA

Prep Batch: 45802

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	857.8		mg/Kg		81	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	999	872.8		mg/Kg		85	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	55	S1-	70 - 130									
o-Terphenyl	54	S1-	70 - 130									

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-21 MSD

Matrix: Solid

Analysis Batch: 45951

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

Prep Type: Total/NA

Prep Batch: 45802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	869.4		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	914.2		mg/Kg		89	70 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	56	S1-	70 - 130								
o-Terphenyl	54	S1-	70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45705/1-A

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/07/23 23:10	1

Lab Sample ID: LCS 880-45705/2-A

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.9		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-45705/3-A

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	273.6		mg/Kg		109	90 - 110	11	20

Lab Sample ID: 890-4031-1 MS

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: H-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	525	F1	252	750.9		mg/Kg		90	90 - 110

Lab Sample ID: 890-4031-1 MSD

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: H-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	525	F1	252	744.7	F1	mg/Kg		87	90 - 110	1	20

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4031-11 MS

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: AH-1 (3-3.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	700	F1	250	923.5	F1	mg/Kg		89	90 - 110

Lab Sample ID: 890-4031-11 MSD

Matrix: Solid

Analysis Batch: 45759

Client Sample ID: AH-1 (3-3.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	700	F1	250	925.7		mg/Kg		90	90 - 110	0	20

Lab Sample ID: MB 880-45706/1-A

Matrix: Solid

Analysis Batch: 45760

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/08/23 01:53	1

Lab Sample ID: LCS 880-45706/2-A

Matrix: Solid

Analysis Batch: 45760

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.4		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-45706/3-A

Matrix: Solid

Analysis Batch: 45760

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.7		mg/Kg		103	90 - 110	4	20

Lab Sample ID: 890-4031-21 MS

Matrix: Solid

Analysis Batch: 45760

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	425		249	678.5		mg/Kg		102	90 - 110

Lab Sample ID: 890-4031-21 MSD

Matrix: Solid

Analysis Batch: 45760

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	425		249	688.4		mg/Kg		106	90 - 110	1	20

Lab Sample ID: 890-4031-31 MS

Matrix: Solid

Analysis Batch: 45760

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

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	479		249	705.9		mg/Kg		91	90 - 110

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QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4031-31 MSD					Client Sample ID: AH-6 (2-2.5')							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 45760												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	479		249	722.0		mg/Kg		98	90 - 110	2	20	

## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## GC VOA

## Analysis Batch: 45956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Total/NA	Solid	8021B	45999
890-4031-2	H-2	Total/NA	Solid	8021B	45999
890-4031-3	H-3	Total/NA	Solid	8021B	45999
890-4031-4	H-4	Total/NA	Solid	8021B	45999
890-4031-5	H-5	Total/NA	Solid	8021B	45999
890-4031-6	H-6	Total/NA	Solid	8021B	45999
890-4031-7	H-7	Total/NA	Solid	8021B	45999
890-4031-8	AH-1 (0-1')	Total/NA	Solid	8021B	45999
890-4031-9	AH-1 (1-1.5')	Total/NA	Solid	8021B	45999
890-4031-10	AH-1 (2-2.5')	Total/NA	Solid	8021B	45999
890-4031-11	AH-1 (3-3.5')	Total/NA	Solid	8021B	45999
890-4031-12	AH-1 (4-4.5')	Total/NA	Solid	8021B	45999
890-4031-13	AH-2 (0-1')	Total/NA	Solid	8021B	45999
890-4031-14	AH-2 (1-1.5')	Total/NA	Solid	8021B	45999
890-4031-15	AH-2 (2-2.5')	Total/NA	Solid	8021B	45999
890-4031-16	AH-2 (3-3.5')	Total/NA	Solid	8021B	45999
890-4031-17	AH-2 (4-4.5')	Total/NA	Solid	8021B	45999
890-4031-18	AH-3 (0-1')	Total/NA	Solid	8021B	45999
890-4031-19	AH-3 (1-1.5')	Total/NA	Solid	8021B	45999
890-4031-20	AH-3 (2-2.5')	Total/NA	Solid	8021B	45999
MB 880-45983/5-A	Method Blank	Total/NA	Solid	8021B	45983
MB 880-45999/5-A	Method Blank	Total/NA	Solid	8021B	45999
LCS 880-45999/1-A	Lab Control Sample	Total/NA	Solid	8021B	45999
LCSD 880-45999/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45999
890-4031-1 MS	H-1	Total/NA	Solid	8021B	45999
890-4031-1 MSD	H-1	Total/NA	Solid	8021B	45999

## Prep Batch: 45983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45983/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 45999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Total/NA	Solid	5035	
890-4031-2	H-2	Total/NA	Solid	5035	
890-4031-3	H-3	Total/NA	Solid	5035	
890-4031-4	H-4	Total/NA	Solid	5035	
890-4031-5	H-5	Total/NA	Solid	5035	
890-4031-6	H-6	Total/NA	Solid	5035	
890-4031-7	H-7	Total/NA	Solid	5035	
890-4031-8	AH-1 (0-1')	Total/NA	Solid	5035	
890-4031-9	AH-1 (1-1.5')	Total/NA	Solid	5035	
890-4031-10	AH-1 (2-2.5')	Total/NA	Solid	5035	
890-4031-11	AH-1 (3-3.5')	Total/NA	Solid	5035	
890-4031-12	AH-1 (4-4.5')	Total/NA	Solid	5035	
890-4031-13	AH-2 (0-1')	Total/NA	Solid	5035	
890-4031-14	AH-2 (1-1.5')	Total/NA	Solid	5035	
890-4031-15	AH-2 (2-2.5')	Total/NA	Solid	5035	
890-4031-16	AH-2 (3-3.5')	Total/NA	Solid	5035	
890-4031-17	AH-2 (4-4.5')	Total/NA	Solid	5035	
890-4031-18	AH-3 (0-1')	Total/NA	Solid	5035	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## GC VOA (Continued)

## Prep Batch: 45999 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-19	AH-3 (1-1.5')	Total/NA	Solid	5035	
890-4031-20	AH-3 (2-2.5')	Total/NA	Solid	5035	
MB 880-45999/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45999/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45999/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4031-1 MS	H-1	Total/NA	Solid	5035	
890-4031-1 MSD	H-1	Total/NA	Solid	5035	

## Prep Batch: 46010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-21	AH-3 (3-3.5')	Total/NA	Solid	5035	
890-4031-22	AH-4 (0-1')	Total/NA	Solid	5035	
890-4031-23	AH-4(1-1.5')	Total/NA	Solid	5035	
890-4031-24	AH-5 (0-1')	Total/NA	Solid	5035	
890-4031-25	AH-5 (1-1.5')	Total/NA	Solid	5035	
890-4031-26	AH-5 (2-2.5')	Total/NA	Solid	5035	
890-4031-27	AH- 5 (3-3.5')	Total/NA	Solid	5035	
890-4031-28	AH-5 (4-4.5')	Total/NA	Solid	5035	
890-4031-29	AH-6 (0-1')	Total/NA	Solid	5035	
890-4031-30	AH-6 (1-1.5')	Total/NA	Solid	5035	
890-4031-31	AH-6 (2-2.5')	Total/NA	Solid	5035	
MB 880-46010/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46010/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46010/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4031-21 MS	AH-3 (3-3.5')	Total/NA	Solid	5035	
890-4031-21 MSD	AH-3 (3-3.5')	Total/NA	Solid	5035	

## Analysis Batch: 46086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-21	AH-3 (3-3.5')	Total/NA	Solid	8021B	46010
890-4031-22	AH-4 (0-1')	Total/NA	Solid	8021B	46010
890-4031-23	AH-4(1-1.5')	Total/NA	Solid	8021B	46010
890-4031-24	AH-5 (0-1')	Total/NA	Solid	8021B	46010
890-4031-25	AH-5 (1-1.5')	Total/NA	Solid	8021B	46010
890-4031-26	AH-5 (2-2.5')	Total/NA	Solid	8021B	46010
890-4031-27	AH- 5 (3-3.5')	Total/NA	Solid	8021B	46010
890-4031-28	AH-5 (4-4.5')	Total/NA	Solid	8021B	46010
890-4031-29	AH-6 (0-1')	Total/NA	Solid	8021B	46010
890-4031-30	AH-6 (1-1.5')	Total/NA	Solid	8021B	46010
890-4031-31	AH-6 (2-2.5')	Total/NA	Solid	8021B	46010
MB 880-46010/5-A	Method Blank	Total/NA	Solid	8021B	46010
LCS 880-46010/1-A	Lab Control Sample	Total/NA	Solid	8021B	46010
LCSD 880-46010/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46010
890-4031-21 MS	AH-3 (3-3.5')	Total/NA	Solid	8021B	46010
890-4031-21 MSD	AH-3 (3-3.5')	Total/NA	Solid	8021B	46010

## Analysis Batch: 46228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Total/NA	Solid	Total BTEX	
890-4031-2	H-2	Total/NA	Solid	Total BTEX	
890-4031-3	H-3	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## GC VOA (Continued)

## Analysis Batch: 46228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-4	H-4	Total/NA	Solid	Total BTEX	
890-4031-5	H-5	Total/NA	Solid	Total BTEX	
890-4031-6	H-6	Total/NA	Solid	Total BTEX	
890-4031-7	H-7	Total/NA	Solid	Total BTEX	
890-4031-8	AH-1 (0-1')	Total/NA	Solid	Total BTEX	
890-4031-9	AH-1 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4031-10	AH-1 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4031-11	AH-1 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4031-12	AH-1 (4-4.5')	Total/NA	Solid	Total BTEX	
890-4031-13	AH-2 (0-1')	Total/NA	Solid	Total BTEX	
890-4031-14	AH-2 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4031-15	AH-2 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4031-16	AH-2 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4031-17	AH-2 (4-4.5')	Total/NA	Solid	Total BTEX	
890-4031-18	AH-3 (0-1')	Total/NA	Solid	Total BTEX	
890-4031-19	AH-3 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4031-20	AH-3 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4031-21	AH-3 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4031-22	AH-4 (0-1')	Total/NA	Solid	Total BTEX	
890-4031-23	AH-4(1-1.5')	Total/NA	Solid	Total BTEX	
890-4031-24	AH-5 (0-1')	Total/NA	Solid	Total BTEX	
890-4031-25	AH-5 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4031-26	AH-5 (2-2.5')	Total/NA	Solid	Total BTEX	
890-4031-27	AH- 5 (3-3.5')	Total/NA	Solid	Total BTEX	
890-4031-28	AH-5 (4-4.5')	Total/NA	Solid	Total BTEX	
890-4031-29	AH-6 (0-1')	Total/NA	Solid	Total BTEX	
890-4031-30	AH-6 (1-1.5')	Total/NA	Solid	Total BTEX	
890-4031-31	AH-6 (2-2.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 45801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Total/NA	Solid	8015NM Prep	
890-4031-2	H-2	Total/NA	Solid	8015NM Prep	
890-4031-3	H-3	Total/NA	Solid	8015NM Prep	
890-4031-4	H-4	Total/NA	Solid	8015NM Prep	
890-4031-5	H-5	Total/NA	Solid	8015NM Prep	
890-4031-6	H-6	Total/NA	Solid	8015NM Prep	
890-4031-7	H-7	Total/NA	Solid	8015NM Prep	
890-4031-8	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
890-4031-9	AH-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4031-10	AH-1 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4031-11	AH-1 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4031-12	AH-1 (4-4.5')	Total/NA	Solid	8015NM Prep	
890-4031-13	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
890-4031-14	AH-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4031-15	AH-2 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4031-16	AH-2 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4031-17	AH-2 (4-4.5')	Total/NA	Solid	8015NM Prep	
890-4031-18	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## GC Semi VOA (Continued)

## Prep Batch: 45801 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-19	AH-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4031-20	AH-3 (2-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-45801/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45801/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4031-1 MS	H-1	Total/NA	Solid	8015NM Prep	
890-4031-1 MSD	H-1	Total/NA	Solid	8015NM Prep	

## Prep Batch: 45802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-21	AH-3 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4031-22	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
890-4031-23	AH-4(1-1.5')	Total/NA	Solid	8015NM Prep	
890-4031-24	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
890-4031-25	AH-5 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4031-26	AH-5 (2-2.5')	Total/NA	Solid	8015NM Prep	
890-4031-27	AH- 5 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4031-28	AH-5 (4-4.5')	Total/NA	Solid	8015NM Prep	
890-4031-29	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
890-4031-30	AH-6 (1-1.5')	Total/NA	Solid	8015NM Prep	
890-4031-31	AH-6 (2-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-45802/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45802/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4031-21 MS	AH-3 (3-3.5')	Total/NA	Solid	8015NM Prep	
890-4031-21 MSD	AH-3 (3-3.5')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 45951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-21	AH-3 (3-3.5')	Total/NA	Solid	8015B NM	45802
890-4031-22	AH-4 (0-1')	Total/NA	Solid	8015B NM	45802
890-4031-23	AH-4(1-1.5')	Total/NA	Solid	8015B NM	45802
890-4031-24	AH-5 (0-1')	Total/NA	Solid	8015B NM	45802
890-4031-25	AH-5 (1-1.5')	Total/NA	Solid	8015B NM	45802
890-4031-26	AH-5 (2-2.5')	Total/NA	Solid	8015B NM	45802
890-4031-27	AH- 5 (3-3.5')	Total/NA	Solid	8015B NM	45802
890-4031-28	AH-5 (4-4.5')	Total/NA	Solid	8015B NM	45802
890-4031-29	AH-6 (0-1')	Total/NA	Solid	8015B NM	45802
890-4031-30	AH-6 (1-1.5')	Total/NA	Solid	8015B NM	45802
890-4031-31	AH-6 (2-2.5')	Total/NA	Solid	8015B NM	45802
MB 880-45802/1-A	Method Blank	Total/NA	Solid	8015B NM	45802
LCS 880-45802/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45802
LCSD 880-45802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45802
890-4031-21 MS	AH-3 (3-3.5')	Total/NA	Solid	8015B NM	45802
890-4031-21 MSD	AH-3 (3-3.5')	Total/NA	Solid	8015B NM	45802

## Analysis Batch: 46052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Total/NA	Solid	8015B NM	45801
890-4031-2	H-2	Total/NA	Solid	8015B NM	45801
890-4031-3	H-3	Total/NA	Solid	8015B NM	45801

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## GC Semi VOA (Continued)

## Analysis Batch: 46052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-4	H-4	Total/NA	Solid	8015B NM	45801
890-4031-5	H-5	Total/NA	Solid	8015B NM	45801
890-4031-6	H-6	Total/NA	Solid	8015B NM	45801
890-4031-7	H-7	Total/NA	Solid	8015B NM	45801
890-4031-8	AH-1 (0-1')	Total/NA	Solid	8015B NM	45801
890-4031-9	AH-1 (1-1.5')	Total/NA	Solid	8015B NM	45801
890-4031-10	AH-1 (2-2.5')	Total/NA	Solid	8015B NM	45801
890-4031-11	AH-1 (3-3.5')	Total/NA	Solid	8015B NM	45801
890-4031-12	AH-1 (4-4.5')	Total/NA	Solid	8015B NM	45801
890-4031-13	AH-2 (0-1')	Total/NA	Solid	8015B NM	45801
890-4031-14	AH-2 (1-1.5')	Total/NA	Solid	8015B NM	45801
890-4031-15	AH-2 (2-2.5')	Total/NA	Solid	8015B NM	45801
890-4031-16	AH-2 (3-3.5')	Total/NA	Solid	8015B NM	45801
890-4031-17	AH-2 (4-4.5')	Total/NA	Solid	8015B NM	45801
890-4031-18	AH-3 (0-1')	Total/NA	Solid	8015B NM	45801
890-4031-19	AH-3 (1-1.5')	Total/NA	Solid	8015B NM	45801
890-4031-20	AH-3 (2-2.5')	Total/NA	Solid	8015B NM	45801
MB 880-45801/1-A	Method Blank	Total/NA	Solid	8015B NM	45801
LCS 880-45801/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45801
LCSD 880-45801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45801
890-4031-1 MS	H-1	Total/NA	Solid	8015B NM	45801
890-4031-1 MSD	H-1	Total/NA	Solid	8015B NM	45801

## Analysis Batch: 46201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Total/NA	Solid	8015 NM	
890-4031-2	H-2	Total/NA	Solid	8015 NM	
890-4031-3	H-3	Total/NA	Solid	8015 NM	
890-4031-4	H-4	Total/NA	Solid	8015 NM	
890-4031-5	H-5	Total/NA	Solid	8015 NM	
890-4031-6	H-6	Total/NA	Solid	8015 NM	
890-4031-7	H-7	Total/NA	Solid	8015 NM	
890-4031-8	AH-1 (0-1')	Total/NA	Solid	8015 NM	
890-4031-9	AH-1 (1-1.5')	Total/NA	Solid	8015 NM	
890-4031-10	AH-1 (2-2.5')	Total/NA	Solid	8015 NM	
890-4031-11	AH-1 (3-3.5')	Total/NA	Solid	8015 NM	
890-4031-12	AH-1 (4-4.5')	Total/NA	Solid	8015 NM	
890-4031-13	AH-2 (0-1')	Total/NA	Solid	8015 NM	
890-4031-14	AH-2 (1-1.5')	Total/NA	Solid	8015 NM	
890-4031-15	AH-2 (2-2.5')	Total/NA	Solid	8015 NM	
890-4031-16	AH-2 (3-3.5')	Total/NA	Solid	8015 NM	
890-4031-17	AH-2 (4-4.5')	Total/NA	Solid	8015 NM	
890-4031-18	AH-3 (0-1')	Total/NA	Solid	8015 NM	
890-4031-19	AH-3 (1-1.5')	Total/NA	Solid	8015 NM	
890-4031-20	AH-3 (2-2.5')	Total/NA	Solid	8015 NM	
890-4031-21	AH-3 (3-3.5')	Total/NA	Solid	8015 NM	
890-4031-22	AH-4 (0-1')	Total/NA	Solid	8015 NM	
890-4031-23	AH-4(1-1.5')	Total/NA	Solid	8015 NM	
890-4031-24	AH-5 (0-1')	Total/NA	Solid	8015 NM	
890-4031-25	AH-5 (1-1.5')	Total/NA	Solid	8015 NM	
890-4031-26	AH-5 (2-2.5')	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## GC Semi VOA (Continued)

## Analysis Batch: 46201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-27	AH- 5 (3-3.5')	Total/NA	Solid	8015 NM	
890-4031-28	AH-5 (4-4.5')	Total/NA	Solid	8015 NM	
890-4031-29	AH-6 (0-1')	Total/NA	Solid	8015 NM	
890-4031-30	AH-6 (1-1.5')	Total/NA	Solid	8015 NM	
890-4031-31	AH-6 (2-2.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 45705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Soluble	Solid	DI Leach	
890-4031-2	H-2	Soluble	Solid	DI Leach	
890-4031-3	H-3	Soluble	Solid	DI Leach	
890-4031-4	H-4	Soluble	Solid	DI Leach	
890-4031-5	H-5	Soluble	Solid	DI Leach	
890-4031-6	H-6	Soluble	Solid	DI Leach	
890-4031-7	H-7	Soluble	Solid	DI Leach	
890-4031-8	AH-1 (0-1')	Soluble	Solid	DI Leach	
890-4031-9	AH-1 (1-1.5')	Soluble	Solid	DI Leach	
890-4031-10	AH-1 (2-2.5')	Soluble	Solid	DI Leach	
890-4031-11	AH-1 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-12	AH-1 (4-4.5')	Soluble	Solid	DI Leach	
890-4031-13	AH-2 (0-1')	Soluble	Solid	DI Leach	
890-4031-14	AH-2 (1-1.5')	Soluble	Solid	DI Leach	
890-4031-15	AH-2 (2-2.5')	Soluble	Solid	DI Leach	
890-4031-16	AH-2 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-17	AH-2 (4-4.5')	Soluble	Solid	DI Leach	
890-4031-18	AH-3 (0-1')	Soluble	Solid	DI Leach	
890-4031-19	AH-3 (1-1.5')	Soluble	Solid	DI Leach	
890-4031-20	AH-3 (2-2.5')	Soluble	Solid	DI Leach	
MB 880-45705/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45705/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCS 880-45705/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4031-1 MS	H-1	Soluble	Solid	DI Leach	
890-4031-1 MSD	H-1	Soluble	Solid	DI Leach	
890-4031-11 MS	AH-1 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-11 MSD	AH-1 (3-3.5')	Soluble	Solid	DI Leach	

## Leach Batch: 45706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-21	AH-3 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-22	AH-4 (0-1')	Soluble	Solid	DI Leach	
890-4031-23	AH-4(1-1.5')	Soluble	Solid	DI Leach	
890-4031-24	AH-5 (0-1')	Soluble	Solid	DI Leach	
890-4031-25	AH-5 (1-1.5')	Soluble	Solid	DI Leach	
890-4031-26	AH-5 (2-2.5')	Soluble	Solid	DI Leach	
890-4031-27	AH- 5 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-28	AH-5 (4-4.5')	Soluble	Solid	DI Leach	
890-4031-29	AH-6 (0-1')	Soluble	Solid	DI Leach	
890-4031-30	AH-6 (1-1.5')	Soluble	Solid	DI Leach	
890-4031-31	AH-6 (2-2.5')	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## HPLC/IC (Continued)

## Leach Batch: 45706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45706/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45706/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45706/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4031-21 MS	AH-3 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-21 MSD	AH-3 (3-3.5')	Soluble	Solid	DI Leach	
890-4031-31 MS	AH-6 (2-2.5')	Soluble	Solid	DI Leach	
890-4031-31 MSD	AH-6 (2-2.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 45759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-1	H-1	Soluble	Solid	300.0	45705
890-4031-2	H-2	Soluble	Solid	300.0	45705
890-4031-3	H-3	Soluble	Solid	300.0	45705
890-4031-4	H-4	Soluble	Solid	300.0	45705
890-4031-5	H-5	Soluble	Solid	300.0	45705
890-4031-6	H-6	Soluble	Solid	300.0	45705
890-4031-7	H-7	Soluble	Solid	300.0	45705
890-4031-8	AH-1 (0-1')	Soluble	Solid	300.0	45705
890-4031-9	AH-1 (1-1.5')	Soluble	Solid	300.0	45705
890-4031-10	AH-1 (2-2.5')	Soluble	Solid	300.0	45705
890-4031-11	AH-1 (3-3.5')	Soluble	Solid	300.0	45705
890-4031-12	AH-1 (4-4.5')	Soluble	Solid	300.0	45705
890-4031-13	AH-2 (0-1')	Soluble	Solid	300.0	45705
890-4031-14	AH-2 (1-1.5')	Soluble	Solid	300.0	45705
890-4031-15	AH-2 (2-2.5')	Soluble	Solid	300.0	45705
890-4031-16	AH-2 (3-3.5')	Soluble	Solid	300.0	45705
890-4031-17	AH-2 (4-4.5')	Soluble	Solid	300.0	45705
890-4031-18	AH-3 (0-1')	Soluble	Solid	300.0	45705
890-4031-19	AH-3 (1-1.5')	Soluble	Solid	300.0	45705
890-4031-20	AH-3 (2-2.5')	Soluble	Solid	300.0	45705
MB 880-45705/1-A	Method Blank	Soluble	Solid	300.0	45705
LCS 880-45705/2-A	Lab Control Sample	Soluble	Solid	300.0	45705
LCSD 880-45705/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45705
890-4031-1 MS	H-1	Soluble	Solid	300.0	45705
890-4031-1 MSD	H-1	Soluble	Solid	300.0	45705
890-4031-11 MS	AH-1 (3-3.5')	Soluble	Solid	300.0	45705
890-4031-11 MSD	AH-1 (3-3.5')	Soluble	Solid	300.0	45705

## Analysis Batch: 45760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4031-21	AH-3 (3-3.5')	Soluble	Solid	300.0	45706
890-4031-22	AH-4 (0-1')	Soluble	Solid	300.0	45706
890-4031-23	AH-4(1-1.5')	Soluble	Solid	300.0	45706
890-4031-24	AH-5 (0-1')	Soluble	Solid	300.0	45706
890-4031-25	AH-5 (1-1.5')	Soluble	Solid	300.0	45706
890-4031-26	AH-5 (2-2.5')	Soluble	Solid	300.0	45706
890-4031-27	AH- 5 (3-3.5')	Soluble	Solid	300.0	45706
890-4031-28	AH-5 (4-4.5')	Soluble	Solid	300.0	45706
890-4031-29	AH-6 (0-1')	Soluble	Solid	300.0	45706
890-4031-30	AH-6 (1-1.5')	Soluble	Solid	300.0	45706
890-4031-31	AH-6 (2-2.5')	Soluble	Solid	300.0	45706

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QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 45760 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45706/1-A	Method Blank	Soluble	Solid	300.0	45706
LCS 880-45706/2-A	Lab Control Sample	Soluble	Solid	300.0	45706
LCSD 880-45706/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45706
890-4031-21 MS	AH-3 (3-3.5')	Soluble	Solid	300.0	45706
890-4031-21 MSD	AH-3 (3-3.5')	Soluble	Solid	300.0	45706
890-4031-31 MS	AH-6 (2-2.5')	Soluble	Solid	300.0	45706
890-4031-31 MSD	AH-6 (2-2.5')	Soluble	Solid	300.0	45706

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Client Sample ID: H-1

Date Collected: 02/03/23 12:00

Date Received: 02/03/23 15:53

## Lab Sample ID: 890-4031-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 09:26
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 11:45
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/07/23 23:24

## Client Sample ID: H-2

Date Collected: 02/03/23 12:00

Date Received: 02/03/23 15:53

## Lab Sample ID: 890-4031-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 09:54
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 12:53
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/07/23 23:38

## Client Sample ID: H-3

Date Collected: 02/03/23 12:00

Date Received: 02/03/23 15:53

## Lab Sample ID: 890-4031-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 10:21
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 13:15
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/07/23 23:43

## Client Sample ID: H-4

Date Collected: 02/03/23 12:00

Date Received: 02/03/23 15:53

## Lab Sample ID: 890-4031-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 10:47
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Client Sample ID: H-4

## Lab Sample ID: 890-4031-4

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 13:37
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/07/23 23:47

## Client Sample ID: H-5

## Lab Sample ID: 890-4031-5

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 11:14
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 13:59
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/07/23 23:52

## Client Sample ID: H-6

## Lab Sample ID: 890-4031-6

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 11:41
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 14:21
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 00:06

## Client Sample ID: H-7

## Lab Sample ID: 890-4031-7

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 12:08
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 14:44

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Client Sample ID: H-7

## Lab Sample ID: 890-4031-7

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 00:11

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

## Lab Sample ID: 890-4031-8

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 13:15
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 15:05
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		20	45759	CH	EET MID	02/08/23 00:15

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

## Lab Sample ID: 890-4031-9

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 13:42
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 15:27
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		5	45759	CH	EET MID	02/08/23 00:20

## Client Sample ID: AH-1 (2-2.5')

## Lab Sample ID: 890-4031-10

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 14:07
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 15:48
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		5	45759	CH	EET MID	02/08/23 00:25

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Client Sample ID: AH-1 (3-3.5')

Lab Sample ID: 890-4031-11

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 15:52
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 16:32
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 00:29

## Client Sample ID: AH-1 (4-4.5')

Lab Sample ID: 890-4031-12

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 16:19
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 16:54
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 00:43

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

Lab Sample ID: 890-4031-13

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 16:45
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 17:15
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		5	45759	CH	EET MID	02/08/23 00:48

## Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 890-4031-14

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 17:11
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49

Eurofins Carlsbad

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-2 (1-1.5')

Lab Sample ID: 890-4031-14

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 17:37
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 01:02

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

Lab Sample ID: 890-4031-15

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 17:36
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 17:58
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 01:06

Client Sample ID: AH-2 (3-3.5')

Lab Sample ID: 890-4031-16

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 18:02
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 18:20
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 01:11

Client Sample ID: AH-2 (4-4.5')

Lab Sample ID: 890-4031-17

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 18:28
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 18:41

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

## Client Sample ID: AH-2 (4-4.5')

Lab Sample ID: 890-4031-17

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 01:16

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

Lab Sample ID: 890-4031-18

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 18:53
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 19:03
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		5	45759	CH	EET MID	02/08/23 01:20

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

Lab Sample ID: 890-4031-19

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 19:19
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 19:24
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		10	45759	CH	EET MID	02/08/23 01:25

## Client Sample ID: AH-3 (2-2.5')

Lab Sample ID: 890-4031-20

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			45999	MNR	EET MID	02/10/23 14:06
Total/NA	Analysis	8021B		1	45956	MNR	EET MID	02/11/23 19:44
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/13/23 18:49
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:32
Total/NA	Prep	8015NM Prep			45801	AJ	EET MID	02/08/23 13:04
Total/NA	Analysis	8015B NM		1	46052	SM	EET MID	02/11/23 19:45
Soluble	Leach	DI Leach			45705	KS	EET MID	02/07/23 15:00
Soluble	Analysis	300.0		1	45759	CH	EET MID	02/08/23 01:30

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-21

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 12:53
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 10:41
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:07

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

Lab Sample ID: 890-4031-22

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 13:19
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 11:49
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		5	45760	CH	EET MID	02/08/23 02:21

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

Lab Sample ID: 890-4031-23

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 13:46
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 12:11
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:26

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

Lab Sample ID: 890-4031-24

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 14:12
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-24

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 12:32
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:31

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

Lab Sample ID: 890-4031-25

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 14:39
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 12:54
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:35

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

Lab Sample ID: 890-4031-26

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 15:05
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 13:15
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:49

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

Lab Sample ID: 890-4031-27

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 15:30
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 13:36

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

Lab Sample ID: 890-4031-27

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:54

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

Lab Sample ID: 890-4031-28

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 15:56
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 13:58
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 02:58

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

Lab Sample ID: 890-4031-29

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 16:22
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 14:20
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 03:03

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

Lab Sample ID: 890-4031-30

Date Collected: 02/03/23 12:00

Matrix: Solid

Date Received: 02/03/23 15:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 16:48
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 14:42
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 03:08

Eurofins Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Client Sample ID: AH-6 (2-2.5')  
Date Collected: 02/03/23 12:00  
Date Received: 02/03/23 15:53

Lab Sample ID: 890-4031-31  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			46010	MNR	EET MID	02/10/23 14:32
Total/NA	Analysis	8021B		1	46086	MNR	EET MID	02/13/23 18:33
Total/NA	Analysis	Total BTEX		1	46228	SM	EET MID	02/14/23 11:45
Total/NA	Analysis	8015 NM		1	46201	SM	EET MID	02/13/23 17:08
Total/NA	Prep	8015NM Prep			45802	AJ	EET MID	02/08/23 13:10
Total/NA	Analysis	8015B NM		1	45951	SM	EET MID	02/10/23 15:26
Soluble	Leach	DI Leach			45706	KS	EET MID	02/07/23 15:02
Soluble	Analysis	300.0		1	45760	CH	EET MID	02/08/23 03:13

Laboratory References:  
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster

Job ID: 890-4031-1  
SDG: Lea County NM

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

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Bear Booster


Job ID: 890-4031-1  
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4031-1	H-1	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-2	H-2	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-3	H-3	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-4	H-4	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-5	H-5	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-6	H-6	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-7	H-7	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-8	AH-1 (0-1')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-9	AH-1 (1-1.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-10	AH-1 (2-2.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-11	AH-1 (3-3.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-12	AH-1 (4-4.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-13	AH-2 (0-1')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-14	AH-2 (1-1.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-15	AH-2 (2-2.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-16	AH-2 (3-3.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-17	AH-2 (4-4.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-18	AH-3 (0-1')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-19	AH-3 (1-1.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-20	AH-3 (2-2.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-21	AH-3 (3-3.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-22	AH-4 (0-1')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-23	AH-4(1-1.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-24	AH-5 (0-1')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-25	AH-5 (1-1.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-26	AH-5 (2-2.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-27	AH- 5 (3-3.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-28	AH-5 (4-4.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-29	AH-6 (0-1')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-30	AH-6 (1-1.5')	Solid	02/03/23 12:00	02/03/23 15:53
890-4031-31	AH-6 (2-2.5')	Solid	02/03/23 12:00	02/03/23 15:53



## Analysis Request of Chain of Custody Record

Page 2 of 19

 <b>Tetra Tech, Inc.</b> 801 W. Wall Street, Ste. 100 Midland, Texas 79701 Tel (432) 692-4539 Fax (432) 692-3946		Client Name: <u>EOG</u> Site Manager: <u>Brittany Long</u>	
Project Name: <u>Bear Baster</u>		Project #: _____	
Project Location: <u>Lea County, NM</u>		Project #: _____	
Invoice to: <u>EOG Affn: Todd Wells</u>		Receiving Laboratory: <u>Eurofins</u>	
Comments: _____		Sampler Signature: <u>Michael A. Brown</u>	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		YEAR	DATE										
AH-1	(3-3.5')			2-3			X						X BTEX 8021B BTEX 8260B
AH-1	(1-4.5')												X TPH TX1005 (Ext to C35)
AH-2	(0-1')												X TPH 8015M (GRO - DRO - ORO - MRO)
AH-2	(1-1.5')												PAH 8270C
AH-2	(2-2.5')												Total Metals Ag As Ba Cd Cr Pb Se Hg
AH-2	(3-3.5')												TCLP Metals Ag As Ba Cd Cr Pb Se Hg
AH-2	(1-4.5')												TCLP Volatiles
AH-3	(0-1')												TCLP Semi Volatiles
AH-3	(1-1.5')												RCI
AH-3	(2-2.5')												GC/MS Vol. 8260B / 624
													GC/MS Semi. Vol. 8270C/625
													PCB's 8082 / 608
													NORM
													PLM (Asbestos)
													Chloride
													Chloride Sulfate TDS
													General Water Chemistry (see attached list)
													Anion/Cation Balance
													Hold

Relinquished by: <u>Michael A. Brown</u> Date: <u>2-3-23</u> Time: _____ Relinquished by: _____ Date: _____ Time: _____ Relinquished by: _____ Date: _____ Time: _____	Received by: <u>Michael A. Brown</u> Date: <u>2-3-23</u> Time: <u>1555</u> Received by: _____ Date: _____ Time: _____ Received by: _____ Date: _____ Time: _____
--	--

LAB USE ONLY Sample Temperature: _____ REMARKS: <u>Standard TAT</u> <input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> 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 W. Wall Street, Ste. 100  
 Midland, Texas 79701  
 Tel (432) 802-4559  
 Fax (432) 802-3946

Page 2 of 4

Client Name: <b>ECO</b>		Site Manager: <b>Brittany Lewis</b>	
Project Name: <b>Bear Booster</b>		Project #:	
Project Location: <b>Lea County</b>		Project #:	
Invoice to: <b>ECO AHA! Todd Wells</b>		Sampler Signature: <i>Sharon T. Blair</i>	
Receiving Laboratory: <b>Enviofics</b>		Sampler Signature: <i>Sharon T. Blair</i>	
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 <sub>3</sub>			
4H-3	(3-3.5')	2-3		X						X BTEX 8021B BTEX 8260B
4H-4	(0-1')									X TPH TX1005 (Ext to C35)
4H-4	(1-1.5')									X TPH 8015M (GRO - DRO - ORO - MRO)
4H-5	(0-1')									X PAH 8270C
4H-5	(1-1.5')									Total Metals Ag As Ba Cd Cr Pb Se Hg
4H-5	(2-2.5')									TCLP Metals Ag As Ba Cd Cr Pb Se Hg
4H-5	(3-3.5')									TCLP Volatiles
4H-5	(4-4.5')									TCLP Semi Volatiles
4H-5	(10-1')									RCI
4H-6	(1-1.5')									GC/MS Vol. 8260B / 624
										GC/MS Semi. Vol. 8270C/625
										PCB's 8082 / 608
										NORM
										PLM (Asbestos)
										Chloride
										Chloride Sulfate TDS
										General Water Chemistry (see attached list)
										Anion/Cation Balance
										Hold

Relinquished by: <i>Sharon T. Blair</i>	Date: 2-3-23	Time:	Received by: <i>Sharon T. Blair</i>	Date: 2-3-23	Time: 1553
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS: <i>Standard TATS</i>
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	Sample Temperature PG 1

ORIGINAL COPY

## Analysis Request of Chain of Custody Record

# Tetra Tech, Inc.

601 W. Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Client Name:

EOH

Site Manager:

Brittany Long

Project Name:

Bear Booster

Project #:

Project Location:

Lea County

Invoice to:

EOH Attn: Todd Wells

Receiving Laboratory:

Environ

Sampler Signature:

Miguel A. Lla

Comments:

### SAMPLE IDENTIFICATION

LAB #

(LAB USE ONLY)

AH-6 (2-2.5)

SAMPLING  
YEAR: 2023  
DATE: 2-3  
TIME:

MATRIX  
WATER  
SOIL  
PRESERVATIVE  
METHOD  
HCL  
HNO<sub>3</sub>  
ICE

# CONTAINERS  
FILTERED (Y/N)

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

Hold

Relinquished by:

Miguel A. Lla

Date: Time:

2-3-23

Received by:

Miguel A. Lla

Date: Time:

2-3-23 1553

Relinquished by:

Date: Time:

REMARKS:

Standard TAT

Sample Temperature

LAB USE ONLY

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

991



## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4031-1

SDG Number: Lea County NM

Login Number: 4031

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4031-1

SDG Number: Lea County NM

Login Number: 4031

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 02/07/23 01:54 PM

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



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

March 29, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: BEAR BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 03/24/23 14:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/20/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 1 (H231364-01)**

BTX 8021B			mg/kg		Analyzed By: JH/				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	QR-03
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	QR-03
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	QR-03
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	QM-07, QR-03
Total BTX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/20/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 2 (H231364-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/27/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/21/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 3 (H231364-03)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 4 (H231364-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/27/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 5 (H231364-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEx	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/27/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 6 (H231364-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 7 (H231364-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 8 (H231364-08)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 9 (H231364-09)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 10 (H231364-10)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEx	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 11 (H231364-11)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 12 (H231364-12)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 13 (H231364-13)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 14 (H231364-14)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 15 (H231364-15)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 16 (H231364-16)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 17 (H231364-17)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 18 (H231364-18)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 19 (H231364-19)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29	
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 20 (H231364-20)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.01	101	2.00	5.29		
Toluene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	1.94		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	0.649		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.10	102	6.00	1.10		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	206	103	200	2.62	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	103	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/21/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 1 (4.5') (H231364-21)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/20/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 2 (4') (H231364-22)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03	
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/20/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 3 (4') (H231364-23)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/21/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 4 (4') (H231364-24)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/27/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/21/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 5 (4') (H231364-25)**

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03	
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41	
Total BTEX	<0.300	0.300	03/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/21/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 6 (4') (H231364-26)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/21/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 7 (4') (H231364-27)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 8 (2') (H231364-28)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 9 (2') (H231364-29)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 10 (2') (H231364-30)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 11 (3') (H231364-31)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 12 (2') (H231364-32)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 13 (2') (H231364-33)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 14 (2') (H231364-34)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 15 (2') (H231364-35)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 16 (2') (H231364-36)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/22/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 17 (1.5') (H231364-37)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/27/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 18 (6") (H231364-38)**

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/28/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 19 (6") (H231364-39)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/28/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.71	112	6.00	2.41		
Total BTEx	<0.300	0.300	03/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 20 (6") (H231364-40)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2023	ND	2.15	108	2.00	2.03		
Toluene*	<0.050	0.050	03/28/2023	ND	2.19	109	2.00	3.47		
Ethylbenzene*	<0.050	0.050	03/28/2023	ND	2.16	108	2.00	2.02		
Total Xylenes*	<0.150	0.150	03/28/2023	ND	6.71	112	6.00	2.41		
Total BTEX	<0.300	0.300	03/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	199	99.3	200	4.23	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	205	102	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 21 (6") (H231364-41)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60		
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	189	94.3	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	182	90.8	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	03/24/2023	Sampling Date:	03/23/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	BEAR BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03018	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: BH - 22 (6") (H231364-42)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/27/2023	ND	2.09	105	2.00	2.60		
Toluene*	<0.050	0.050	03/27/2023	ND	2.12	106	2.00	2.15		
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.22	111	2.00	2.71		
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.82	114	6.00	2.90		
Total BTEx	<0.300	0.300	03/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	03/27/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	189	94.3	200	4.26	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	182	90.8	200	5.77	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



## Analysis Request of Custody Record

Page 1 of 5



Tetra Tech, Inc.

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

Client Name: EOG

Site Manager:

Brittany Long

Project Name:

Bear Booster

(432) 741-5813

Brittany.Long@tetratech.com

Project Location:

Lea County, NM

Project #:

212C-MD-03018

Invoice to:

ATTN: EOG Todd Wells

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Miguel A. Flores

Comments:

## SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>		
1	SW-1	3/20/2023		X			X		
2	SW-2	3/20/2023		X			X		
3	SW-3	3/21/2023		X			X		
4	SW-4	3/22/2023		X			X		
5	SW-5	3/22/2023		X			X		
6	SW-6	3/22/2023		X			X		
7	SW-7	3/22/2023		X			X		
8	SW-8	3/22/2023		X			X		
9	SW-9	3/22/2023		X			X		
10	SW-10	3/22/2023		X			X		

 Inquired by: Miguel A Flores 3/24/23 0936  
 Date: 3/24/23 Time: 0936  
 Inquired by: [Signature] 3/24/23  
 Date: 3/24/23 Time: 1407

 Received by: [Signature] 3/24/23 11:00  
 Date: 3/24/23 Time: 11:00  
 Received by: [Signature] 3/24/23 1407  
 Date: 3/24/23 Time: 1407

## ANALYSIS REQUEST

(Circle or Specify Method No.)

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

LAB USE ONLY

## REMARKS:

 Sample Temperature 3.4 / 20.0 C  
 2.8 C #113  
☒ RUSH: Same Day 24 hr 48 hr 72 hr  
☐ Rush Charges Authorized  
☐ Special Report Limits or TRRP Report

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

## Analysis Request of Chain of Custody Record



## Tetra Tech, Inc.

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

Page 2 of 2

Page 46 of 49

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Bear Booster		(432) 741-5813	
Project Location: Lea County, NM		Project #: 212C-MD-03018	
Project Location: (county, state)		Project #: 212C-MD-03018	
Invoice to: ATTN: EOG Todd Wells		Sampler Signature: Miguel A. Flores	
Receiving Laboratory: Cardinal Labs		Sampler Signature: Miguel A. Flores	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>			ICE
		YEAR-2023								
11	SW-11	3/22/2023		X			X			
12	SW-12	3/22/2023		X			X			
13	SW-13	3/22/2023		X			X			
14	SW-14	3/22/2023		X			X			
15	SW-15	3/22/2023		X			X			
16	SW-16	3/22/2023		X			X			
17	SW-17	3/22/2023		X			X			
18	SW-18	3/22/2023		X			X			
19	SW-19	3/23/2023		X			X			
20	SW-20	3/23/2023		X			X			

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> Rush: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	ANALYSIS REQUEST (Circle or Specify Method No.) BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M ( GRO - DRO - ORO ) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Hold

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:



## Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 3 of 5

Page 47 of 49

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Bear Booster		(432) 741-5813	
Project Location: Lea County, NM		Project #: <a href="mailto:Brittany.Long@tetratech.com">Brittany.Long@tetratech.com</a>	
Invoice to: ATTN: EOG Todd Wells		212C-MD-03018	
Receiving Laboratory: Cardinal Labs		Sampler Signature: Miguel A. Flores	
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 <sub>3</sub>				ICE
21	BH-1 (4.5')	3/21/2023		X				X		BTEX 8021B BTEX 8260B	
22	BH-2 (4')	3/20/2023		X				X		TPH TX1005 (Ext to C35)	
23	BH-3 (4')	3/20/2023		X				X		TPH 8015M ( GRO - DRO - ORO )	
24	BH-4 (4')	3/21/2023		X				X		PAH 8270C	
25	BH-5 (4')	3/21/2023		X				X		Total Metals Ag As Ba Cd Cr Pb Se Hg	
26	BH-6 (4')	3/21/2023		X				X		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
27	BH-7 (4')	3/21/2023		X				X		TCLP Volatiles	
28	BH-8 (2')	3/22/2023		X				X		TCLP Semi Volatiles	
29	BH-9 (2')	3/22/2023		X				X		RCI	
30	BH-10 (2')	3/22/2023		X				X		GC/MS Vol. 8260B / 624	
										GC/MS Semi. Vol. 8270C/625	
										PCB's 8082 / 608	
										NORM	
										PLM (Asbestos)	
										Chloride	
										Chloride Sulfate TDS	
										General Water Chemistry (see attached list)	
										Anion/Cation Balance	
										Hold	

Inquired by: Miguel A Flores	Date: 3/24/23	Time: 0936
Inquired by: [Signature]	Date: 3/24/23	Time: 11:00
Inquired by: [Signature]	Date: 3/24/23	Time: 1407

Received by: [Signature]	Date: 3/24/23	Time: 1407
--------------------------	---------------	------------

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	Sample Temperature 34.0-0.0 2.8-#113

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## Analysis Request of Chain of Custody Record

Page 4 of 5



## Tetra Tech, Inc.

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

Client Name:

Brittany Long

Site Manager:

Project Name:

(432) 741-5813

Brittany.Long@tetratech.com

Project Location:  
(county, state)

212C-MD-03018

Invoice to:

ATTN: EOG Todd Wells

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Miguel A. Flores

Comments:

## SAMPLE IDENTIFICATION

LAB # 1431344  
(LAB USE ONLY)

YEAR: 2023	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>		

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

31	BH-11 (3)	3/22/2023		X		X													
32	BH-12 (2)	3/22/2023		X		X													
33	BH-13 (2)	3/22/2023		X		X													
34	BH-14 (2)	3/22/2023		X		X													
35	BH-15 (2)	3/22/2023		X		X													
36	BH-16 (2)	3/22/2023		X		X													
37	BH-17 (1.5)	3/22/2023		X		X													
38	BH-18 (6")	3/23/2023		X		X													
39	BH-19 (6")	3/23/2023		X		X													
40	BH-20 (6")	3/23/2023		X		X													

Inquired by: Miguel A Flores

Date: 3/24/23

Time: 09:37

LAB USE ONLY

REMARKS:

Inquired by: Miguel A Flores

Date: 3/24/23

Time: 11:00

Inquired by: Miguel A Flores

Date: 3/24/23

Time: 14:07

Sample Temperature  
34°C

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

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ANALYSIS REQUEST  
(Circle or Specify Method No.)

## Analysis Request of Chain of Custody Record

Page 5 of 5



Tetra Tech, Inc.

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

Client Name:

Brittany Long

Project Name:

Bear Booster

(432) 741-5813

Project Location:

Lea County, NM

Project #:

212C-MD-03018

Invoice to:

ATTN : EOG Todd Wells

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Miguel A. Flores

Comments:

## SAMPLE IDENTIFICATION

## SAMPLING

## MATRIX

## PRESERVATIVE METHOD

LAB #  
LAB USE ONLY

DATE

TIME

# CONTAINERS

FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO )

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

ANALYSIS REQUEST  
(Circle or Specify Method No.)
 Inquired by: Miguel A Flores  
 Date: 3/24/23  
 Time: 0937

 Received by: Miguel A Flores  
 Date: 3/24/23  
 Time: 11:00

 Inquired by: Miguel A Flores  
 Date: 3/24/23  
 Time: 1407

 Received by: Miguel A Flores  
 Date: 3/24/23  
 Time: 1407

LAB USE ONLY

## REMARKS:

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

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Brittany Long  
Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Generated 6/19/2023 3:20:56 PM

## JOB DESCRIPTION

EOG - Bear Booster  
SDG NUMBER 212C-MD-03018

## JOB NUMBER

890-4800-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
6/19/2023 3:20:56 PM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Laboratory Job ID: 890-4800-1  
SDG: 212C-MD-03018

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Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Job ID: 890-4800-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-4800-1

Receipt

The samples were received on 6/8/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH21 (.75) (890-4800-1), SW 21 (890-4800-2), SW22 (890-4800-3), SW23 (890-4800-4), SW24 (890-4800-5) and BH 22 (3.5) (890-4800-6).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-55611 and analytical batch 880-55659 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-55659 recovered below the lower control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-55659/64).

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

GC Semi VOA

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

HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-55157 and analytical batch 880-55332 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Client Sample ID: BH21 (.75)

Lab Sample ID: 890-4800-1

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		06/15/23 13:27	06/17/23 07:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/15/23 13:27	06/17/23 07:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/15/23 13:27	06/17/23 07:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/15/23 13:27	06/17/23 07:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/15/23 13:27	06/17/23 07:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/15/23 13:27	06/17/23 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	06/15/23 13:27	06/17/23 07:30	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/15/23 13:27	06/17/23 07:30	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/19/23 15:39	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/14/23 09:50	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/12/23 10:46	06/13/23 15:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/12/23 10:46	06/13/23 15:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/12/23 10:46	06/13/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	06/12/23 10:46	06/13/23 15:19	1
o-Terphenyl	131	S1+	70 - 130	06/12/23 10:46	06/13/23 15:19	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140	F1	4.95		mg/Kg			06/13/23 13:18	1

Client Sample ID: SW 21

Lab Sample ID: 890-4800-2

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		06/15/23 13:27	06/17/23 07:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/15/23 13:27	06/17/23 07:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/15/23 13:27	06/17/23 07:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/15/23 13:27	06/17/23 07:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/15/23 13:27	06/17/23 07:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/15/23 13:27	06/17/23 07:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/15/23 13:27	06/17/23 07:50	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/15/23 13:27	06/17/23 07:50	1

Eurofins Carlsbad

## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Client Sample ID: SW 21

Lab Sample ID: 890-4800-2

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/19/23 15:39	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/23 09:50	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 15:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 15:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				06/12/23 10:46	06/13/23 15:41	1
o-Terphenyl	133	S1+	70 - 130				06/12/23 10:46	06/13/23 15:41	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.99		mg/Kg			06/13/23 13:35	1

Client Sample ID: SW22

Lab Sample ID: 890-4800-3

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		06/15/23 13:27	06/17/23 08:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/15/23 13:27	06/17/23 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				06/15/23 13:27	06/17/23 08:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130				06/15/23 13:27	06/17/23 08:11	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/19/23 15:39	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/14/23 09:50	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 16:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 16:03	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Client Sample ID: SW22

Lab Sample ID: 890-4800-3

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				06/12/23 10:46	06/13/23 16:03	1
o-Terphenyl	129		70 - 130				06/12/23 10:46	06/13/23 16:03	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.97		mg/Kg			06/13/23 13:40	1

Client Sample ID: SW23

Lab Sample ID: 890-4800-4

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:31	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		06/15/23 13:27	06/17/23 08:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/15/23 13:27	06/17/23 08:31	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/15/23 13:27	06/17/23 08:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				06/15/23 13:27	06/17/23 08:31	1
1,4-Difluorobenzene (Surr)	105		70 - 130				06/15/23 13:27	06/17/23 08:31	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/19/23 15:39	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/14/23 09:50	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/12/23 10:46	06/13/23 16:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/12/23 10:46	06/13/23 16:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/12/23 10:46	06/13/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				06/12/23 10:46	06/13/23 16:26	1
o-Terphenyl	130		70 - 130				06/12/23 10:46	06/13/23 16:26	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.9		4.98		mg/Kg			06/13/23 13:46	1

Eurofins Carlsbad



## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Client Sample ID: SW24

Lab Sample ID: 890-4800-5

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199		mg/Kg		06/15/23 13:27	06/17/23 08:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/15/23 13:27	06/17/23 08:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/15/23 13:27	06/17/23 08:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/15/23 13:27	06/17/23 08:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/15/23 13:27	06/17/23 08:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/15/23 13:27	06/17/23 08:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/15/23 13:27	06/17/23 08:52	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/15/23 13:27	06/17/23 08:52	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/19/23 15:39	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/23 09:50	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 16:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 16:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	06/12/23 10:46	06/13/23 16:48	1
o-Terphenyl	125		70 - 130	06/12/23 10:46	06/13/23 16:48	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		4.96		mg/Kg			06/13/23 13:52	1

Client Sample ID: BH 22 (3.5)

Lab Sample ID: 890-4800-6

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U **	0.00198		mg/Kg		06/15/23 13:27	06/17/23 09:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/15/23 13:27	06/17/23 09:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/15/23 13:27	06/17/23 09:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/15/23 13:27	06/17/23 09:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/15/23 13:27	06/17/23 09:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/15/23 13:27	06/17/23 09:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/15/23 13:27	06/17/23 09:13	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/15/23 13:27	06/17/23 09:13	1

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Client Sample ID: BH 22 (3.5)

Lab Sample ID: 890-4800-6

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/19/23 15:39	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/14/23 09:50	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 17:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 17:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/23 10:46	06/13/23 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				06/12/23 10:46	06/13/23 17:11	1
o-Terphenyl	124		70 - 130				06/12/23 10:46	06/13/23 17:11	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.96		mg/Kg			06/13/23 14:09	1

## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4796-A-1-E MS	Matrix Spike	106	99
890-4796-A-1-F MSD	Matrix Spike Duplicate	108	105
890-4800-1	BH21 (.75)	92	106
890-4800-2	SW 21	96	104
890-4800-3	SW22	99	104
890-4800-4	SW23	96	105
890-4800-5	SW24	98	103
890-4800-6	BH 22 (3.5)	99	104
LCS 880-55611/1-A	Lab Control Sample	94	101
LCSD 880-55611/2-A	Lab Control Sample Dup	100	98
MB 880-55515/5-A	Method Blank	90	115
MB 880-55611/5-A	Method Blank	89	121
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4800-1	BH21 (.75)	112	131 S1+
890-4800-2	SW 21	116	133 S1+
890-4800-3	SW22	110	129
890-4800-4	SW23	111	130
890-4800-5	SW24	109	125
890-4800-6	BH 22 (3.5)	103	124
890-4807-A-1-D MS	Matrix Spike	108	119
890-4807-A-1-E MSD	Matrix Spike Duplicate	108	118
LCS 880-55253/2-A	Lab Control Sample	100	119
LCSD 880-55253/3-A	Lab Control Sample Dup	97	113
MB 880-55253/1-A	Method Blank	114	146 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

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

Lab Sample ID: MB 880-55515/5-A

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55515

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/23 13:04	06/16/23 12:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/23 13:04	06/16/23 12:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/23 13:04	06/16/23 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/23 13:04	06/16/23 12:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/23 13:04	06/16/23 12:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/23 13:04	06/16/23 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	06/14/23 13:04	06/16/23 12:40	1
1,4-Difluorobenzene (Surr)	115		70 - 130	06/14/23 13:04	06/16/23 12:40	1

Lab Sample ID: MB 880-55611/5-A

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55611

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/15/23 13:27	06/17/23 00:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/15/23 13:27	06/17/23 00:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/15/23 13:27	06/17/23 00:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/15/23 13:27	06/17/23 00:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/15/23 13:27	06/17/23 00:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/15/23 13:27	06/17/23 00:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/15/23 13:27	06/17/23 00:44	1
1,4-Difluorobenzene (Surr)	121		70 - 130	06/15/23 13:27	06/17/23 00:44	1

Lab Sample ID: LCS 880-55611/1-A

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55611

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1315	*+	mg/Kg		131	70 - 130
Toluene	0.100	0.1235		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2041		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-55611/2-A

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1150		mg/Kg		115	70 - 130	13	35

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

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

Lab Sample ID: LCSD 880-55611/2-A

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55611

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1101		mg/Kg		110	70 - 130	11	35
Ethylbenzene	0.100	0.08939		mg/Kg		89	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1852		mg/Kg		93	70 - 130	10	35
o-Xylene	0.100	0.09164		mg/Kg		92	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-4796-A-1-E MS

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55611

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U *	0.101	0.1276		mg/Kg		127	70 - 130
Toluene	<0.00199	U	0.101	0.1162		mg/Kg		115	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1022		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2039		mg/Kg		101	70 - 130
o-Xylene	<0.00199	U	0.101	0.09854		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-4796-A-1-F MSD

Matrix: Solid

Analysis Batch: 55659

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55611

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *	0.0994	0.1222		mg/Kg		123	70 - 130	4	35
Toluene	<0.00199	U	0.0994	0.1130		mg/Kg		114	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.0994	0.09480		mg/Kg		95	70 - 130	8	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1982		mg/Kg		100	70 - 130	3	35
o-Xylene	<0.00199	U	0.0994	0.09725		mg/Kg		97	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

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

Lab Sample ID: MB 880-55253/1-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 09:46	1

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

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

Lab Sample ID: MB 880-55253/1-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 55253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 09:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/23 10:46	06/13/23 09:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				06/12/23 10:46	06/13/23 09:46	1
o-Terphenyl	146	S1+	70 - 130				06/12/23 10:46	06/13/23 09:46	1

Lab Sample ID: LCS 880-55253/2-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	900.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1169		mg/Kg		117	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	100		70 - 130				
o-Terphenyl	119		70 - 130				

Lab Sample ID: LCSD 880-55253/3-A

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	950.4		mg/Kg		95	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1090		mg/Kg		109	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	97		70 - 130						
o-Terphenyl	113		70 - 130						

Lab Sample ID: 890-4807-A-1-D MS

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1227		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	874.4		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	119		70 - 130						

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

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

Lab Sample ID: 890-4807-A-1-E MSD

Matrix: Solid

Analysis Batch: 55372

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 55253

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1205		mg/Kg		118	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	867.7		mg/Kg		83	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	118		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55157/1-A

Matrix: Solid

Analysis Batch: 55332

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/13/23 13:01	1

Lab Sample ID: LCS 880-55157/2-A

Matrix: Solid

Analysis Batch: 55332

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.8		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-55157/3-A

Matrix: Solid

Analysis Batch: 55332

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-4800-1 MS

Matrix: Solid

Analysis Batch: 55332

Client Sample ID: BH21 (.75)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	140	F1	248	439.4	F1	mg/Kg		121	90 - 110

Lab Sample ID: 890-4800-1 MSD

Matrix: Solid

Analysis Batch: 55332

Client Sample ID: BH21 (.75)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	140	F1	248	439.1	F1	mg/Kg		121	90 - 110	0	20

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

## GC VOA

## Prep Batch: 55515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55515/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 55611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Total/NA	Solid	5035	
890-4800-2	SW 21	Total/NA	Solid	5035	
890-4800-3	SW22	Total/NA	Solid	5035	
890-4800-4	SW23	Total/NA	Solid	5035	
890-4800-5	SW24	Total/NA	Solid	5035	
890-4800-6	BH 22 (3.5)	Total/NA	Solid	5035	
MB 880-55611/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55611/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55611/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4796-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4796-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 55659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Total/NA	Solid	8021B	55611
890-4800-2	SW 21	Total/NA	Solid	8021B	55611
890-4800-3	SW22	Total/NA	Solid	8021B	55611
890-4800-4	SW23	Total/NA	Solid	8021B	55611
890-4800-5	SW24	Total/NA	Solid	8021B	55611
890-4800-6	BH 22 (3.5)	Total/NA	Solid	8021B	55611
MB 880-55515/5-A	Method Blank	Total/NA	Solid	8021B	55515
MB 880-55611/5-A	Method Blank	Total/NA	Solid	8021B	55611
LCS 880-55611/1-A	Lab Control Sample	Total/NA	Solid	8021B	55611
LCSD 880-55611/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55611
890-4796-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	55611
890-4796-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	55611

## Analysis Batch: 55853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Total/NA	Solid	Total BTEX	
890-4800-2	SW 21	Total/NA	Solid	Total BTEX	
890-4800-3	SW22	Total/NA	Solid	Total BTEX	
890-4800-4	SW23	Total/NA	Solid	Total BTEX	
890-4800-5	SW24	Total/NA	Solid	Total BTEX	
890-4800-6	BH 22 (3.5)	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 55253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Total/NA	Solid	8015NM Prep	
890-4800-2	SW 21	Total/NA	Solid	8015NM Prep	
890-4800-3	SW22	Total/NA	Solid	8015NM Prep	
890-4800-4	SW23	Total/NA	Solid	8015NM Prep	
890-4800-5	SW24	Total/NA	Solid	8015NM Prep	
890-4800-6	BH 22 (3.5)	Total/NA	Solid	8015NM Prep	
MB 880-55253/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

## GC Semi VOA (Continued)

## Prep Batch: 55253 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-55253/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4807-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4807-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 55372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Total/NA	Solid	8015B NM	55253
890-4800-2	SW 21	Total/NA	Solid	8015B NM	55253
890-4800-3	SW22	Total/NA	Solid	8015B NM	55253
890-4800-4	SW23	Total/NA	Solid	8015B NM	55253
890-4800-5	SW24	Total/NA	Solid	8015B NM	55253
890-4800-6	BH 22 (3.5)	Total/NA	Solid	8015B NM	55253
MB 880-55253/1-A	Method Blank	Total/NA	Solid	8015B NM	55253
LCS 880-55253/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55253
LCSD 880-55253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55253
890-4807-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	55253
890-4807-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	55253

## Analysis Batch: 55481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Total/NA	Solid	8015 NM	
890-4800-2	SW 21	Total/NA	Solid	8015 NM	
890-4800-3	SW22	Total/NA	Solid	8015 NM	
890-4800-4	SW23	Total/NA	Solid	8015 NM	
890-4800-5	SW24	Total/NA	Solid	8015 NM	
890-4800-6	BH 22 (3.5)	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 55157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Soluble	Solid	DI Leach	
890-4800-2	SW 21	Soluble	Solid	DI Leach	
890-4800-3	SW22	Soluble	Solid	DI Leach	
890-4800-4	SW23	Soluble	Solid	DI Leach	
890-4800-5	SW24	Soluble	Solid	DI Leach	
890-4800-6	BH 22 (3.5)	Soluble	Solid	DI Leach	
MB 880-55157/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55157/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55157/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4800-1 MS	BH21 (.75)	Soluble	Solid	DI Leach	
890-4800-1 MSD	BH21 (.75)	Soluble	Solid	DI Leach	

## Analysis Batch: 55332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-1	BH21 (.75)	Soluble	Solid	300.0	55157
890-4800-2	SW 21	Soluble	Solid	300.0	55157
890-4800-3	SW22	Soluble	Solid	300.0	55157
890-4800-4	SW23	Soluble	Solid	300.0	55157
890-4800-5	SW24	Soluble	Solid	300.0	55157

Eurofins Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

HPLC/IC (Continued)

Analysis Batch: 55332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4800-6	BH 22 (3.5)	Soluble	Solid	300.0	55157
MB 880-55157/1-A	Method Blank	Soluble	Solid	300.0	55157
LCS 880-55157/2-A	Lab Control Sample	Soluble	Solid	300.0	55157
LCSD 880-55157/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55157
890-4800-1 MS	BH21 (.75)	Soluble	Solid	300.0	55157
890-4800-1 MSD	BH21 (.75)	Soluble	Solid	300.0	55157

Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Client Sample ID: BH21 (.75)  
Date Collected: 06/08/23 00:00  
Date Received: 06/08/23 16:30

Lab Sample ID: 890-4800-1  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			55611	EL	EET MID	06/15/23 13:27
Total/NA	Analysis	8021B		1	55659	SM	EET MID	06/17/23 07:30
Total/NA	Analysis	Total BTEX		1	55853	SM	EET MID	06/19/23 15:39
Total/NA	Analysis	8015 NM		1	55481	AJ	EET MID	06/14/23 09:50
Total/NA	Prep	8015NM Prep			55253	AJ	EET MID	06/12/23 10:46
Total/NA	Analysis	8015B NM		1	55372	AJ	EET MID	06/13/23 15:19
Soluble	Leach	DI Leach			55157	KS	EET MID	06/09/23 13:59
Soluble	Analysis	300.0		1	55332	CH	EET MID	06/13/23 13:18

Client Sample ID: SW 21  
Date Collected: 06/08/23 00:00  
Date Received: 06/08/23 16:30

Lab Sample ID: 890-4800-2  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			55611	EL	EET MID	06/15/23 13:27
Total/NA	Analysis	8021B		1	55659	SM	EET MID	06/17/23 07:50
Total/NA	Analysis	Total BTEX		1	55853	SM	EET MID	06/19/23 15:39
Total/NA	Analysis	8015 NM		1	55481	AJ	EET MID	06/14/23 09:50
Total/NA	Prep	8015NM Prep			55253	AJ	EET MID	06/12/23 10:46
Total/NA	Analysis	8015B NM		1	55372	AJ	EET MID	06/13/23 15:41
Soluble	Leach	DI Leach			55157	KS	EET MID	06/09/23 13:59
Soluble	Analysis	300.0		1	55332	CH	EET MID	06/13/23 13:35

Client Sample ID: SW22  
Date Collected: 06/08/23 00:00  
Date Received: 06/08/23 16:30

Lab Sample ID: 890-4800-3  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			55611	EL	EET MID	06/15/23 13:27
Total/NA	Analysis	8021B		1	55659	SM	EET MID	06/17/23 08:11
Total/NA	Analysis	Total BTEX		1	55853	SM	EET MID	06/19/23 15:39
Total/NA	Analysis	8015 NM		1	55481	AJ	EET MID	06/14/23 09:50
Total/NA	Prep	8015NM Prep			55253	AJ	EET MID	06/12/23 10:46
Total/NA	Analysis	8015B NM		1	55372	AJ	EET MID	06/13/23 16:03
Soluble	Leach	DI Leach			55157	KS	EET MID	06/09/23 13:59
Soluble	Analysis	300.0		1	55332	CH	EET MID	06/13/23 13:40

Client Sample ID: SW23  
Date Collected: 06/08/23 00:00  
Date Received: 06/08/23 16:30

Lab Sample ID: 890-4800-4  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			55611	EL	EET MID	06/15/23 13:27
Total/NA	Analysis	8021B		1	55659	SM	EET MID	06/17/23 08:31
Total/NA	Analysis	Total BTEX		1	55853	SM	EET MID	06/19/23 15:39

Eurofins Carlsbad

## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

## Client Sample ID: SW23

## Lab Sample ID: 890-4800-4

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	55481	AJ	EET MID	06/14/23 09:50
Total/NA	Prep	8015NM Prep			55253	AJ	EET MID	06/12/23 10:46
Total/NA	Analysis	8015B NM		1	55372	AJ	EET MID	06/13/23 16:26
Soluble	Leach	DI Leach			55157	KS	EET MID	06/09/23 13:59
Soluble	Analysis	300.0		1	55332	CH	EET MID	06/13/23 13:46

## Client Sample ID: SW24

## Lab Sample ID: 890-4800-5

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			55611	EL	EET MID	06/15/23 13:27
Total/NA	Analysis	8021B		1	55659	SM	EET MID	06/17/23 08:52
Total/NA	Analysis	Total BTEX		1	55853	SM	EET MID	06/19/23 15:39
Total/NA	Analysis	8015 NM		1	55481	AJ	EET MID	06/14/23 09:50
Total/NA	Prep	8015NM Prep			55253	AJ	EET MID	06/12/23 10:46
Total/NA	Analysis	8015B NM		1	55372	AJ	EET MID	06/13/23 16:48
Soluble	Leach	DI Leach			55157	KS	EET MID	06/09/23 13:59
Soluble	Analysis	300.0		1	55332	CH	EET MID	06/13/23 13:52

## Client Sample ID: BH 22 (3.5)

## Lab Sample ID: 890-4800-6

Date Collected: 06/08/23 00:00

Matrix: Solid

Date Received: 06/08/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			55611	EL	EET MID	06/15/23 13:27
Total/NA	Analysis	8021B		1	55659	SM	EET MID	06/17/23 09:13
Total/NA	Analysis	Total BTEX		1	55853	SM	EET MID	06/19/23 15:39
Total/NA	Analysis	8015 NM		1	55481	AJ	EET MID	06/14/23 09:50
Total/NA	Prep	8015NM Prep			55253	AJ	EET MID	06/12/23 10:46
Total/NA	Analysis	8015B NM		1	55372	AJ	EET MID	06/13/23 17:11
Soluble	Leach	DI Leach			55157	KS	EET MID	06/09/23 13:59
Soluble	Analysis	300.0		1	55332	CH	EET MID	06/13/23 14:09

## Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

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

**Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: EOG - Bear Booster

Job ID: 890-4800-1  
SDG: 212C-MD-03018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4800-1	BH21 (.75)	Solid	06/08/23 00:00	06/08/23 16:30
890-4800-2	SW 21	Solid	06/08/23 00:00	06/08/23 16:30
890-4800-3	SW22	Solid	06/08/23 00:00	06/08/23 16:30
890-4800-4	SW23	Solid	06/08/23 00:00	06/08/23 16:30
890-4800-5	SW24	Solid	06/08/23 00:00	06/08/23 16:30
890-4800-6	BH 22 (3.5)	Solid	06/08/23 00:00	06/08/23 16:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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


890-4600 Chain of Custody

Page 1 of 1

6/19/2023

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Bear Booster

432-741-5813

Project Location:

Lea County, NM

Project #:

212C-MD-03018

Invoice to:

EOG Attn: Todd Wells

Receiving Laboratory:

EuroFins

Sampler Signature:

Jorge Fernandez

Comments:

## SAMPLE IDENTIFICATION

LAB #  
(LAB USE ONLY)

BH 21

SW 21

SW 22

SW 23

SW 24

BH-22

13.5'

## SAMPLING

YEAR: 2023

DATE

TIME

## MATRIX

WATER

SOIL

## PRESERVATIVE METHOD

HCL

HNO<sub>3</sub>

ICE

# CONTAINERS

FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

Standard TAT

Sample Temperature

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

 11m-007  
 5.4  
 5.2

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4800-1

SDG Number: 212C-MD-03018

Login Number: 4800

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-4800-1

SDG Number: 212C-MD-03018

Login Number: 4800

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/12/23 08:53 AM

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

**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 284881

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 284881
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	2/23/2024