

SITE INFORMATION

Report Type: Closure Report 1RP-5582 / NDHR1917862601

General Site Information:

Site:	Neptune 10 State CTB					
Company:	EOG Resources					
Section, Township and Range	Unit K	Sec. 10	T 24S	R 33E		
Lease Number:						
County:	Lea County					
GPS:	32.231193°N			103.561633°W		
Surface Owner:	State					
Mineral Owner:	State					
Directions:	From the intersection of HWY 128 and Co Rd 2-A, travel north on Co Rd 2-A for 0.90 miles, turn east onto lease road for 0.50 miles, turn north for 0.50 miles, turn west for 0.20 miles to location.					

Release Data:

Date Released:	6/5/2019
Type Release:	Oil & Produced Water
Source of Contamination:	Dump Line
Fluid Released:	1 bbl oil & 7 bbl water
Fluids Recovered:	1 bbl oil & 5 bbl water

Official Communication:

Name:	Todd Wells		Clair Gonzales
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr		901 West Wall St.
			Ste 100
City:	Midland Texas, 79706		Midland, Texas
Phone number:	(432) 686-3613		(432) 687-8123
Fax:			
Email:	Todd_Wells@eogresources.com		Clair.Gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	22'
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

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



April 8, 2022

Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Closure Report for the EOG Resources, Neptune 10 State CTB, Unit K, Section 10, Township 24 South, Range 33 East, Lea County, New Mexico. 1RP-5582.

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources to assess a release that occurred at the Neptune 10 State CTB, Unit K, Section 10, Township 24 South, Range 33 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.231193°, W 103.561633°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on June 5, 2019, and released approximately 7 barrels of produced water and 1 barrel of oil due to a pin hole leak on the high-pressure water dump line of the separator. Approximately 1 barrel of oil and 5 barrels of produced water were recovered. The release occurred on the pad, impacting areas measuring approximately 41' x 150' and 76' x 120'. The initial C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is located in a low karst potential area. The nearest well is listed on the USGS National Water Information data base in Section 10, approximately 0.40 miles northwest of the site and has a reported depth to groundwater of 22' below surface. The groundwater data is shown in Appendix B.

Regulatory

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

Tetra Tech

901 W Wall St, Suite 100, Midland Texas, 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

**TETRA TECH**

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 depth to groundwater, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the reported depth to groundwater in the area, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment and Analytical Results

On June 27, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. Using a hand auger, a total of nine (9) auger holes (AH-1 through AH-9) were installed in the release areas to total depths ranging from 1-1.5' and 7-7.5' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed any benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. Additionally, the area of AH-4 showed chloride concentrations below the RRAL. However, the remaining auger holes showed shallow chloride impact to total depths between 0-1' and 2-2.5' below surface, before declining with depth to below the 600 mg/kg threshold.

2019 Remediation Activities

Based on the laboratory data, Tetra Tech returned to the site on October 30th-November 5th, 2019, in order to excavate the release areas to the maximum extent safely possible. The areas of AH-2, AH-6, and AH-9 were excavated to 1.0', the areas of AH-3, AH-7, and AH-8 were excavated to 2.0' and the area of AH-1 was excavated to 3.0' below surface.

Composite confirmation samples were collected every 200 square feet to ensure proper removal of the impacted soils. A total of twenty-four (24) bottom hole samples (BH-1 through BH-24) and twenty-five (25) sidewall samples (North #1 Sidewall through North #7 Sidewall, East #1 Sidewall through East #6 Sidewall, West #1 Sidewall through West #6 Sidewall, and South #1 Sidewall through South #6 Sidewall) were collected. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The sample locations are shown on Figure 4.

Referring to Table 2, none of the samples collected showed any benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. The areas of North #5 Sidewall and South #1 Sidewall showed chloride concentrations of 1,300 mg/kg and 3,760 mg/kg, respectively. These areas were not expanded due to safety concerns and the underground lines in the area.

Approximately 245 cubic yards were excavated and hauled for proper disposal. Once the excavation was complete, the areas were backfilled to surface grade.



2021 Additional Sampling Activities

On June 2, 2021, Tetra Tech resampled these areas by installing two (2) five-point composite confirmation samples (Composite-1 and Composite-2) to depths of 3.0'-3.5' below surface, in the areas of North #5 Sidewall and South #1 Sidewall, respectively. Both composite samples (Composite-1 and Composite-2) showed concentrations below the 600 mg/kg threshold, with concentrations ranging from 7.11 mg/kg to 103 mg/kg. The composite sample results are shown in Table 3, and the sample locations are shown in Figure 5. The remaining sidewall samples showed chloride concentrations below the 600 mg/kg threshold.

The area of AH-5 could not be safely remediated in 2019 due to the numerous lines in the area and access issues. In September and October of 2021, Tetra Tech returned to the site to reassess the area of auger hole (AH-5), three (3) auger holes (AH-1 through AH-3) were installed to depths of 4.5' below surface, to determine current chloride concentrations remaining in the area. Additionally, four (4) horizontal samples (H-1 through H-4) were installed to determine ensure the area was horizontally delineated. All auger holes (AH-1 through AH-3) showed benzene, BTEX, TPH, and chloride concentrations below RRALs. Additionally, all horizontal samples showed benzene, BTEX, TPH, and chloride concentrations below RRALs. The results of the sampling are summarized in Table 3, and the sample locations are shown on Figure 5.

Conclusion

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

Respectfully submitted,
TETRA TECH

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

Brittany Long,
Project Manager

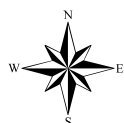
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager

Figures



● SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet

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

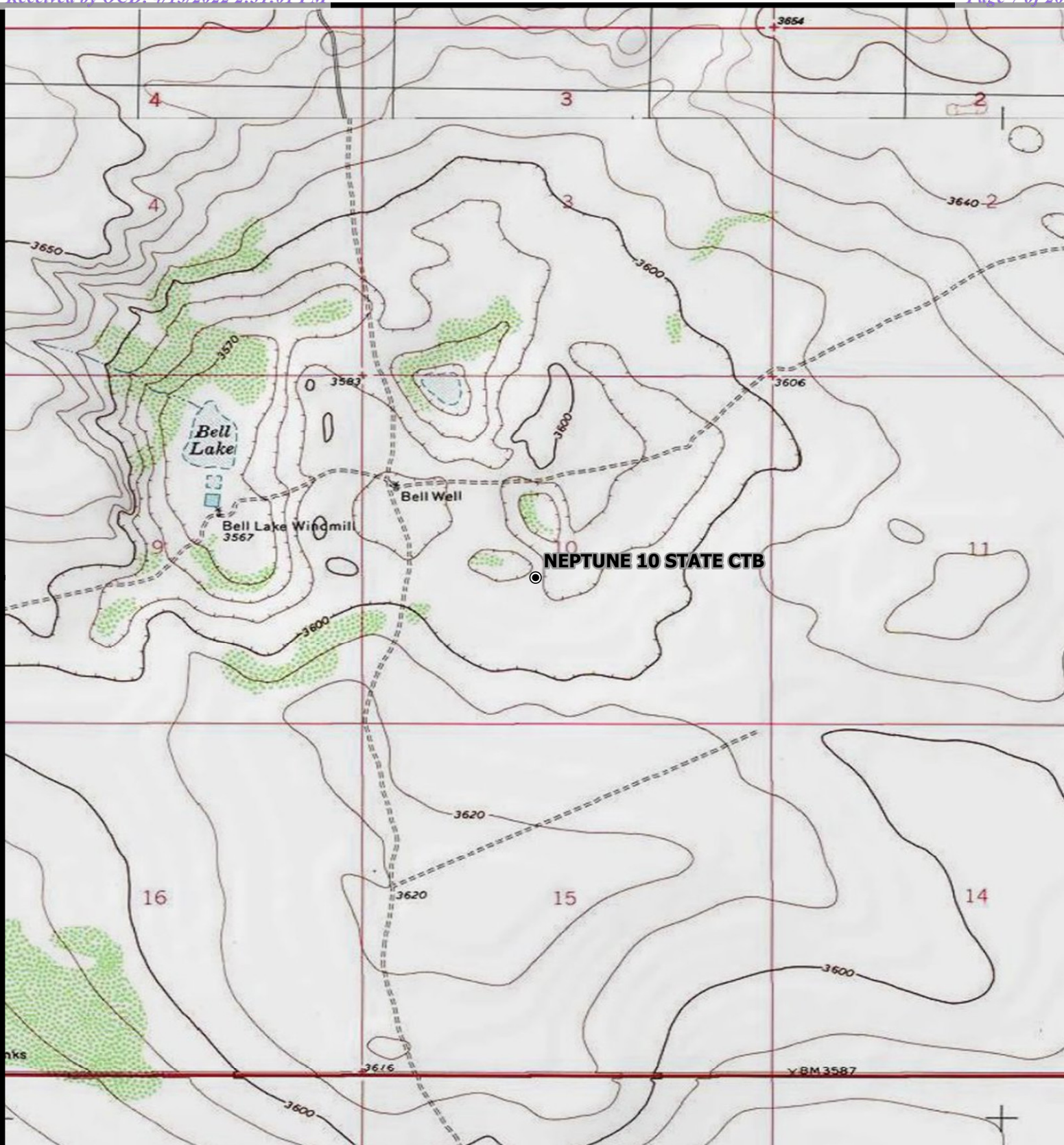


STATE LOCATOR MAP

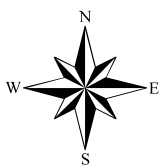
OVERVIEW MAP
NEPTUNE 10 STATE CTB
Property Located at 32.230939°, -103.561469°
LEA COUNTY, NEW MEXICO



FIGURE
1



● SITE LOCATION

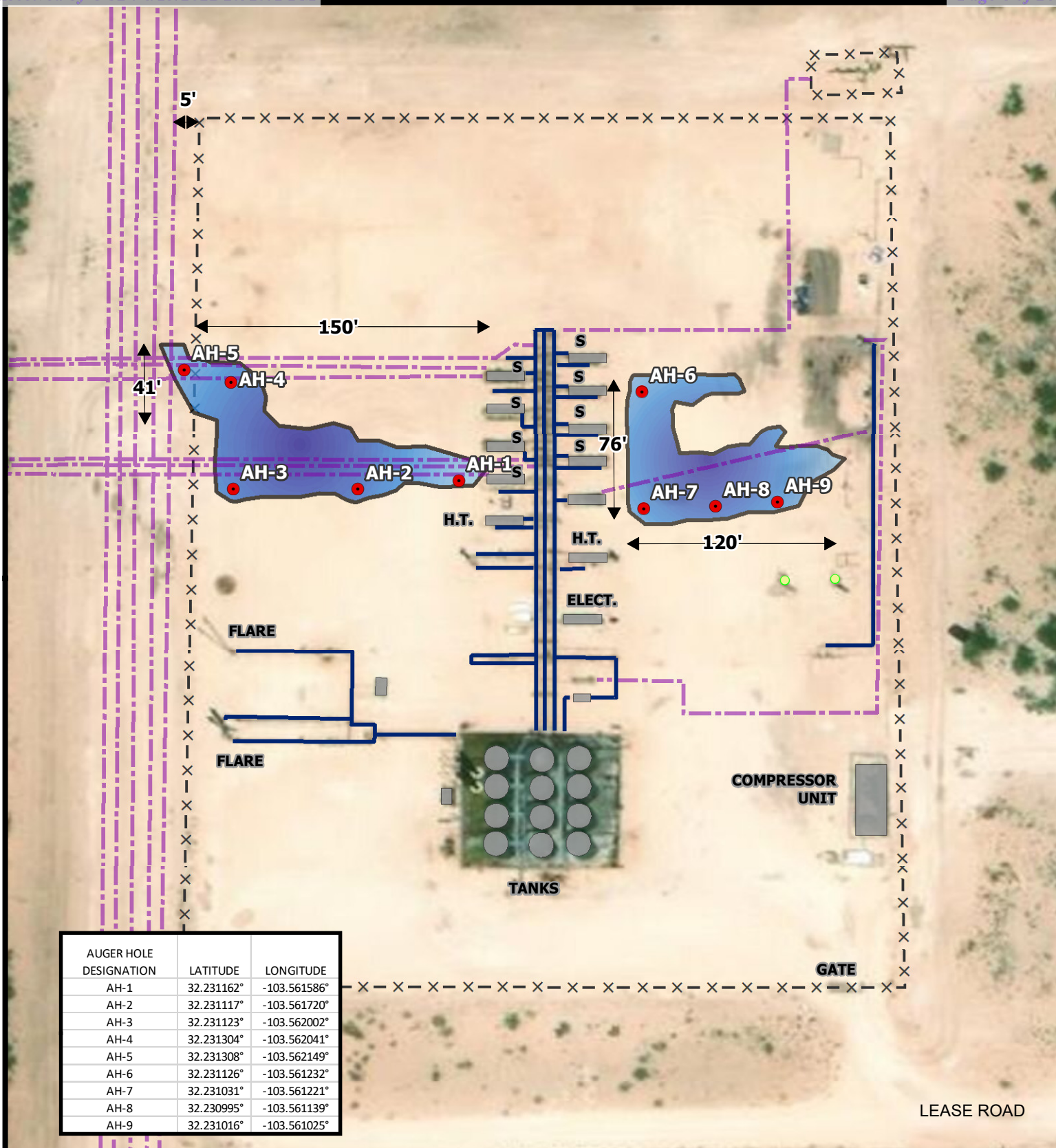


0 1,000 2,000
Approximate Scale in Feet

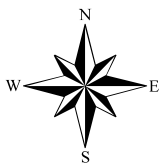
TOPOGRAPHIC MAP
NEPTUNE 10 STATE CTB
Property Located at 32.230939°, -103.561469°
LEA COUNTY, NEW MEXICO



FIGURE
2



- AUGERHOLE SAMPLE POINTS
- POWER POLE
- EQUIPMENT
- PROCESS PIPE
- BURIED PIPELINE
- x-x-x-x-x FENCE
- SPILL



0 45 90
Approximate Scale in Feet

SPILL ASSESSMENT MAP

NEPTUNE 10 STATE CTB

Property Located at coordinates 32.230939°, -103.561469°
LEA COUNTY, NEW MEXICO



FIGURE
3



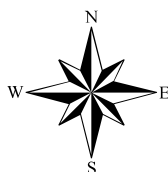
BH BOTTOMHOLE SAMPLE LOCATIONS

● SIDEWALL SAMPLE LOCATIONS

1.0' EXCAVATED DEPTH

2.0' EXCAVATED DEPTH

3.0' EXCAVATED DEPTH



0 40 80 Feet
Approximate Scale

EXCAVATION AREA & DEPTH MAP

NEPTUNE 10 STATE CTB

Property located at coordinates 32.230939°, -103.561469°

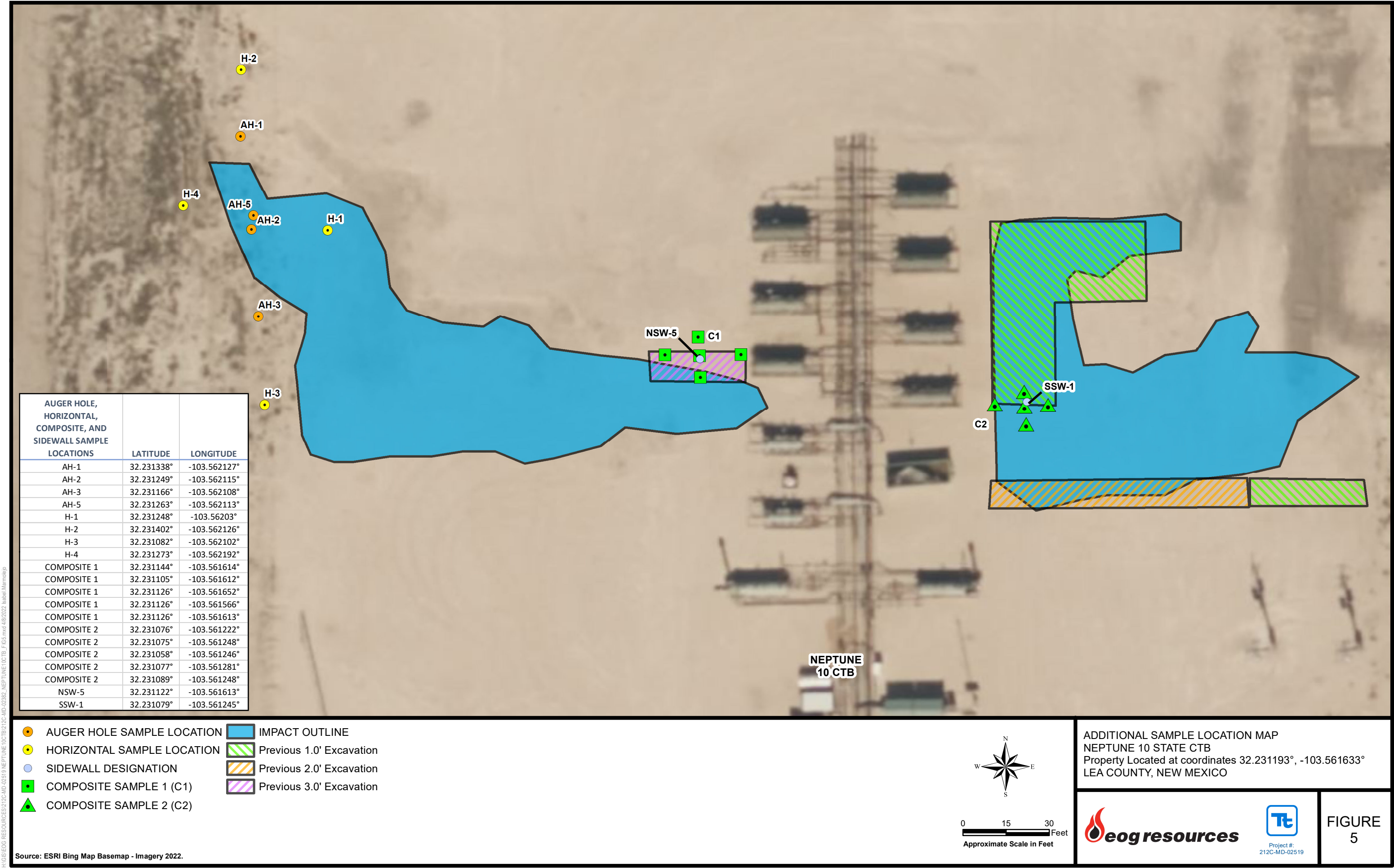
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02520

FIGURE

4



Tables

Table 1
EOG
Neptune 10
Lea County, New Mexico

Sample ID	Sample Date	BEB Depth (ft)	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	MRO	Total						
AH-1	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	0.00286	<0.00200	0.00286	18.5
	"		1-1.5		X	<14.9	<14.9	<14.9	<14.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	4,940
	"		2-2.5		X	-	-	-	-	-	-	-	-	-	1,470
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	57.2
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	84.0
	"		5-5.5	X		-	-	-	-	-	-	-	-	-	25.4
AH-2	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	909
	"		1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	354
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	218
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	301
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	126
AH-3	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	974
	"		1-1.5		X	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	841
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	204
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	156
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	88.9
	"		5-5.5	X		-	-	-	-	-	-	-	-	-	37.9
AH-4	6/28/2019		0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.1
	"		1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	75.9
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	171
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	92.9
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	70.6
AH-5	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,080
	"		1-1.5		X	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,090
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	567
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	229
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	301
	"		5-5.5	X		-	-	-	-	-	-	-	-	-	307
	"		6-6.5	X		-	-	-	-	-	-	-	-	-	196
	"		7-7.5	X		-	-	-	-	-	-	-	-	-	437
AH-6	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,380
	"		1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	585
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	99.8
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	127
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	28.3
	"		5-5.5	X		-	-	-	-	-	-	-	-	-	33.1
AH-7	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	3,850
	"		1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	513
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	14.7
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	11.0
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	93.4
AH-8	6/27/2019		0-1		X	<14.9	<14.9	<14.9	<14.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,390
	"		1-1.5		X	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	905
AH-9	6/27/2019		0-1		X	<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	906
	"		1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	102
	"		2-2.5	X		-	-	-	-	-	-	-	-	-	100
	"		3-3.5	X		-	-	-	-	-	-	-	-	-	65.9
	"		4-4.5	X		-	-	-	-	-	-	-	-	-	10.5
	"		5-5.5	X		-	-	-	-	-	-	-	-	-	12.0

Table 2
EOG
Neptune 10
Lea County, New Mexico

Sample ID	Sample Date	BEB Depth (ft)	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	MRO	Total						
Bottom Hole 1	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
Bottom Hole 2	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 3	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 4	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottom Hole 5	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottom Hole 6	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.57	<0.150	<0.300	80.0
Bottom Hole 7	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottom Hole 8	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottom Hole 9	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Bottom Hole 10	10/31/2019	2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 11	10/31/2019	2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottom Hole 12	10/31/2019	2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottom Hole 13	10/31/2019	2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 14	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 15	10/31/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 16	11/5/2019	3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottom Hole 17	11/5/2019	3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 18	11/5/2019	3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 19	11/5/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 20	11/5/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Bottom Hole 21	11/5/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
Bottom Hole 22	11/5/2019	1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 23	11/5/2019	2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 24	11/5/2019	2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
North #1 Sidewall	10/31/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
North #2 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
North #3 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
North #4 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
North #5 Sidewall	11/5/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,300
North #6 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
North #7 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
East #1 Sidewall	10/31/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
East #2 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
East #3 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
East #4 Sidewall	11/5/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496
East #5 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
East #6 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
West #1 Sidewall	10/31/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
West #2 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
West #3 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
West #4 Sidewall	11/5/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
West #5 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
West #6 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
South #1 Sidewall	10/31/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,760
South #2 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
South #3 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
South #4 Sidewall	11/5/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
South #5 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
South #6 Sidewall	"	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0

Table 3
EOG Resources
Neptune 10 State CTB
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						
Composite 1	6/2/2021	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	51.2
	6/2/2021	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	44.3
	6/2/2021	2-2.5	X	-	-	-	-	-	-	-	-	-	-	100
	6/2/2021	3-3.5	X	-	-	-	-	-	-	-	-	-	-	28.3
Composite 2	6/2/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	103
	6/2/2021	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	36.9
	6/2/2021	2-2.5	X	-	-	-	-	-	-	-	-	-	-	15.3
	6/2/2021	3-3.5	X	-	-	-	-	-	-	-	-	-	-	7.11
AH-1	10/4/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.3
	10/4/2021	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.7
	10/4/2021	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	11.0
	10/4/2021	3-3.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	11.2
	10/4/2021	4-4.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	163
AH-2	10/4/2021	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	13.5
	10/4/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	16.8
	10/4/2021	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	149
	10/4/2021	3-3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	224
	10/4/2021	4-4.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	154
AH-3	10/4/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	9.19
	10/4/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	11.0
	10/4/2021	2-2.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	11.7
	10/4/2021	3-3.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	55.2
	10/4/2021	4-4.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	15.0
H-1	9/29/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	23.1
H-2	9/29/2021	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	16.0
H-3	10/4/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	6.63
H-4	10/4/2021	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	14.7

(-)

Not Analyzed

Exceeds Thresholds

Photos

EOG Resources
Neptune 10 State CTB
Lea County, New Mexico



View West – Excavated Areas of AH-1 and AH-2



View Southwest – Excavated areas of AH-3

EOG Resources
Neptune 10 State CTB
Lea County, New Mexico



View West – Excavated Area of AH-6



View East – Excavated areas of AH-7, AH-8, and AH-9

Appendix A

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NDHR1917862601
District RP	1RP-5582
Facility ID	
Application ID	pDHR1917861617

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) NDHR1917862601
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.231193° Longitude -103.561633°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Neptune 10 State CTB	Site Type EOG Facility
Date Release Discovered 6/5/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
K DHR 6/27/2019	10	24S	33E	Lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 1
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A pin hole was discovered on the high pressure water dump line of the separator causing the release to the location. Approximately 8 bbls of water and oil was released and 6 bbls recovered.

Incident ID	NDHR1917862601
District RP	1RP-5582
Facility ID	
Application ID	pDHR1917861617

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>6-21-19</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Dylan Rose-Coss</u> Date: <u>06/27/2019</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 05/18/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
EOG - Neptune 10 State CTB, Lea County, New Mexico

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

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

23 South			34 East		
6	329	5	4	3	2
7	8	255	9	10	11
18	17	16	345	15	14
19	20	21	22	282	23
30	29	28	27	265	25
31	32	160	33	34	35
	130				

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

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

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

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

25 South			33 East		
6	5	90	4	3	172
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South			34 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	50	28	27	26
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

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

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

34 NMOCD - Groundwater Data

121 Abandoned Waterwell (recently measured)

**National Water Information System: Mapper**

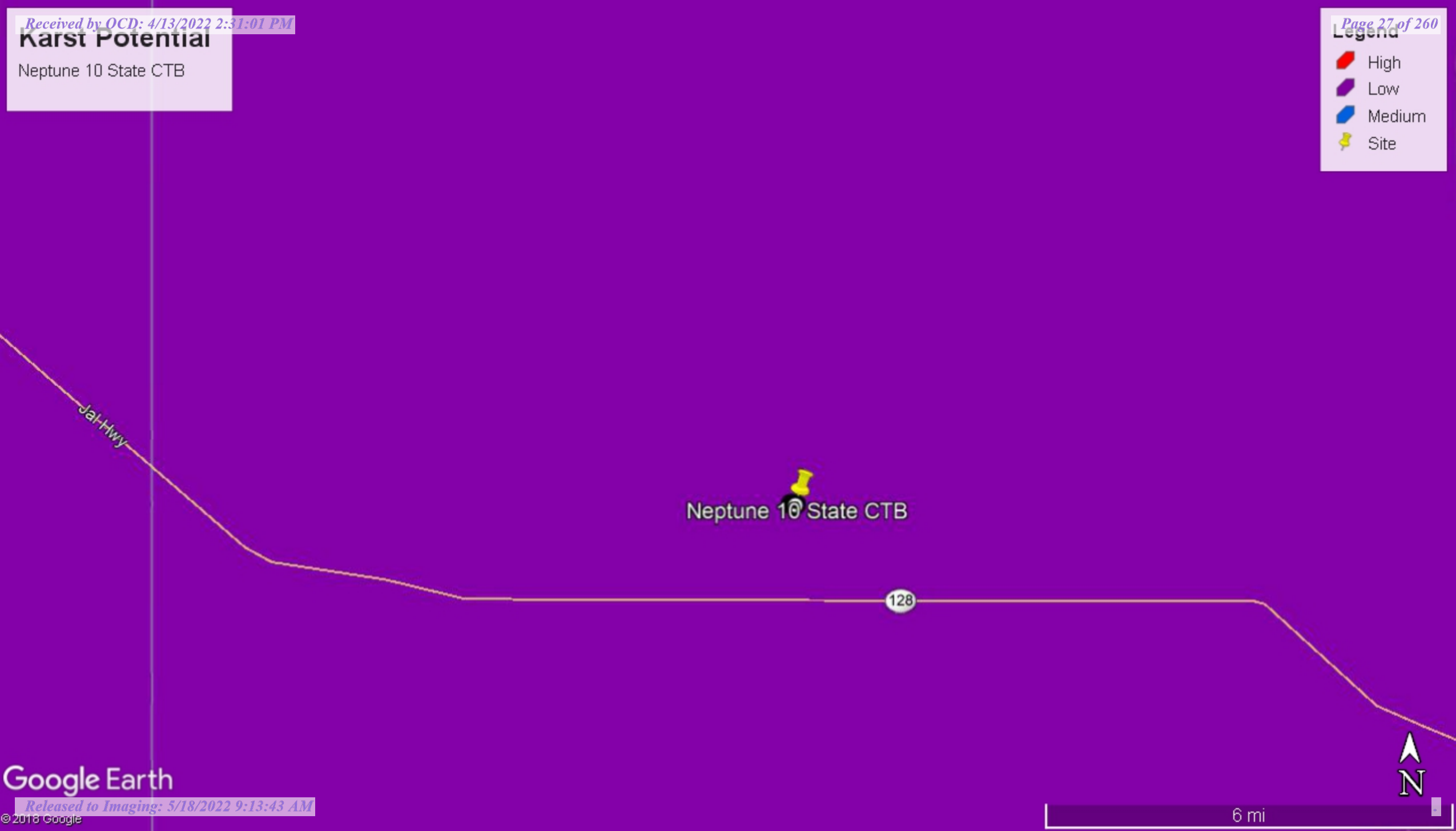
Sites Map	
Search Search by Street Address: 32.230939, -103.561469 Search by Place Name: Enter Place Name Search by Site Number(s): Enter Site Number(s) Search by State/Territory: Select an Area Search by Watershed Region: Select a Region	
Surface-Water Sites Groundwater Sites Springs Atmospheric Sites Other Sites	Site Information

Karst Potential

Neptune 10 State CTB

Legend

- High
- Low
- Medium
- Site





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	40	20	20
C 02309		CUB	LE	2	2	2	25	24S	33E	639638	3562994*	60	30	30
C 02310		CUB	LE	2	3	2	33	24S	33E	634437	3560918*	120	70	50
C 02311		CUB	LE	2	3	2	33	24S	33E	634437	3560918*	120	70	50
C 02430		CUB	LE	3	3	3	16	24S	33E	633377	3564732*	643	415	228
C 02431		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	525	415	110
C 02432		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	640	415	225
C 02563		CUB	LE	1	4	2	33	24S	33E	634639	3560923*	120		
C 02564		CUB	LE	2	4	2	33	24S	33E	634839	3560923*	120		
C 02890		C	LE	2	4	29	24S	33E	633114	3562012*	500			
C 03565 POD3		CUB	LE	3	4	08	24S	33E	632763	3566546		1533		
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518			
C 03600 POD1		CUB	LE	2	2	1	26	24S	33E	637275	3563023			
C 03600 POD2		CUB	LE	4	4	1	25	24S	33E	638824	3562329			
C 03600 POD3		CUB	LE	3	4	2	26	24S	33E	637784	3562340			
C 03600 POD4		CUB	LE	3	3	1	26	24S	33E	636617	3562293			
C 03600 POD5		CUB	LE	3	2	4	26	24S	33E	637857	3562020			
C 03600 POD6		CUB	LE	3	1	4	26	24S	33E	637383	3562026			
C 03600 POD7		CUB	LE	3	1	3	26	24S	33E	636726	3561968			
C 03601 POD1		CUB	LE	4	4	2	23	24S	33E	638124	3563937			
C 03601 POD2		CUB	LE	3	2	4	23	24S	33E	637846	3563588			
C 03601 POD3		CUB	LE	1	3	3	24	24S	33E	638142	3563413			
C 03601 POD4		CUB	LE	3	3	3	24	24S	33E	638162	3561375			
C 03601 POD5		CUB	LE	2	4	4	23	24S	33E	637988	3563334			
C 03601 POD6		CUB	LE	1	4	4	23	24S	33E	637834	3563338			
C 03601 POD7		CUB	LE	4	4	4	23	24S	33E	637946	3563170			

*UTM location was derived from PLSS - see Help

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

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

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

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

(In feet)

POD Number	POD Sub- Code	basin	County	Q 6 4	Q 16 1	Q 4 2	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03602 POD2	CUB	LE	4	4	1	25	24S	33E	638824	3562329				
C 03603 POD1	CUB	LE	3	2	2	35	24S	33E	637805	3561225				
C 03603 POD2	CUB	LE	3	1	2	35	24S	33E	637384	3561167				
C 03603 POD3	CUB	LE	4	1	1	35	24S	33E	636890	3561092				
C 03603 POD4	CUB	LE	3	2	4	35	24S	33E	637789	3560461				
C 03603 POD5	CUB	LE	3	3	2	35	24S	33E	636745	3560767				
C 03603 POD6	CUB	LE	3	1	3	35	24S	33E	636749	3560447				
C 03662 POD1	C	LE	3	1	2	23	24S	33E	637342	3564428		550	110	440
C 03666 POD1	C	LE	2	3	4	13	24S	33E	639132	3565078		650	390	260
C 03679 POD1	C	ED	1	4	2	14	24S	33E	603567	3581547		700	575	125
C 03917 POD1	C	LE	4	1	3	13	24S	33E	638374	3565212		600	420	180
C 04014 POD2	CUB	LE	4	4	2	01	24S	33E	639656	3568917		95	81	14
C 04014 POD3	CUB	LE	2	4	2	01	24S	33E	639497	3569007		95	87	8
C 04014 POD4	CUB	LE	3	4	2	01	24S	33E	639295	3568859		96	86	10
C 04014 POD5	CUB	LE	1	4	2	01	24S	33E	639284	3569086		95	85	10

Average Depth to Water: **300 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1533 feet**

Record Count: 41

PLSS Search:

Township: 24S

Range: 33E

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.

7/2/19 12:46 PM

Page 2 of 2

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321348103340401

Minimum number of levels = 1

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

USGS 321348103340401 24S.33E.10.13123

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°14'04.9", Longitude 103°34'02.4" NAD83

Land-surface elevation 3,592 feet above NAVD88

The depth of the well is 36 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

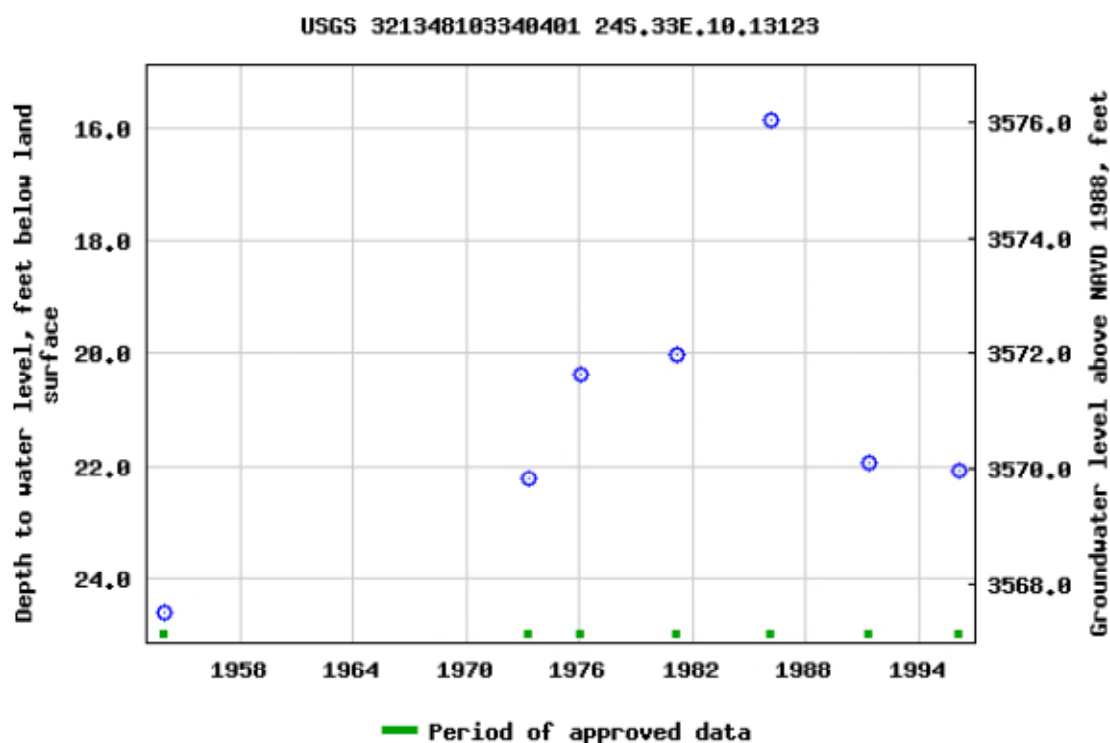
Output formats

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-07-02 14:49:30 EDT

1.06 0.89 nadww01



NFHL Web Mapping Application



Data Layers

Measure

3602 ft



Search Result
Y:32.230939 X:-103.561469

100m
300ft

Princeton Rd

FEMA | Bureau of Land Management, Texas Parks & Wildlife

Appendix C



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 01, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: NEPTUNE 10 ST CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/31/19 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 1 (1' BEB) (H903726-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2019	ND	1.92	95.8	2.00	4.21	
Toluene*	<0.050	0.050	11/01/2019	ND	1.92	95.8	2.00	3.85	
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.4	2.00	3.06	
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.81	96.8	6.00	2.72	
Total BTEX	<0.300	0.300	11/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/01/2019	ND	400	100	400	7.69	

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	11/01/2019	ND	228	114	200	7.39	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	8.27	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

Cardinal Laboratories

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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
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 2 (1' BEB) (H903726-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/01/2019	ND	400	100	400	7.69	

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	10/31/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	10/31/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	10/31/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 3 (1' BEB) (H903726-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/01/2019	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	10/31/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	10/31/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	10/31/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 4 (1' BEB) (H903726-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/01/2019	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	10/31/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	10/31/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	10/31/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 5 (1' BEB) (H903726-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	11/01/2019	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	10/31/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	10/31/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	10/31/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 6 (1' BEB) (H903726-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17	
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15	
Ethylbenzene*	0.057	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50	
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29	
Total BTX	<0.300	0.300	11/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/01/2019	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	10/31/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	10/31/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	10/31/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 7 (1' BEB) (H903726-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 8 (1' BEB) (H903726-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 9 (1' BEB) (H903726-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 10 (2' BEB) (H903726-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 11 (2' BEB) (H903726-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	10/31/2019	Sampling Date:	10/31/2019
Reported:	11/01/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 12 (2' BEB) (H903726-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 13 (2' BEB) (H903726-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 14 (1' BEB) (H903726-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 15 (1' BEB) (H903726-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.59	79.5	2.00	6.17		
Toluene*	<0.050	0.050	11/01/2019	ND	1.49	74.6	2.00	2.15		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.50	75.2	2.00	2.50		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	4.60	76.7	6.00	1.29		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET, STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH # 1 SIDEWALL (H903726-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH # 2 SIDEWALL (H903726-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH # 3 SIDEWALL (H903726-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH # 4 SIDEWALL (H903726-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05	
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45	
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26	
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37	
Total BTEx	<0.300	0.300	11/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST # 1 SIDEWALL (H903726-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST # 2 SIDEWALL (H903726-21)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	223	112	200	1.05	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	225	112	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST # 3 SIDEWALL (H903726-22)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST # 1 SIDEWALL (H903726-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEx	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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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
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST # 2 SIDEWALL (H903726-24)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST # 3 SIDEWALL (H903726-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05	
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45	
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26	
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37	
Total BTX	<0.300	0.300	11/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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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
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH # 1 SIDEWALL (H903726-26)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05	
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45	
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26	
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37	
Total BTX	<0.300	0.300	11/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH # 2 SIDEWALL (H903726-27)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05		
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45		
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26		
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37		
Total BTEX	<0.300	0.300	11/01/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 10/31/2019
 Reported: 11/01/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 10/31/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH # 3 SIDEWALL (H903726-28)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2019	ND	1.91	95.6	2.00	3.05	
Toluene*	<0.050	0.050	11/01/2019	ND	1.91	95.4	2.00	2.45	
Ethylbenzene*	<0.050	0.050	11/01/2019	ND	1.95	97.5	2.00	2.26	
Total Xylenes*	<0.150	0.150	11/01/2019	ND	5.83	97.2	6.00	2.37	
Total BTX	<0.300	0.300	11/01/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/01/2019	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	11/01/2019	ND	225	112	200	1.60	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	226	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CC jo 13 ega D

Analysis Request of Chain of Custody Record

Page 1 of 3



Tetra Tech, Inc.

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

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Neptune 10 St CTB		Project #: 212C-MD-01816	
Project Location: Lea Co, NM		Project #: 212C-MD-01816	
Invoice to: EOG - Neptune TODD WELLS		Receiving Laboratory: Cardinal	
Receiving Laboratory: Cardinal		Sampler Signature: Conner Moehring	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)			
		YEAR: 2019	DATE	TIME	WATER	SOIL	HCL			HNO ₃	ICE	None
		1	Bottom Hole #1 (1' BEB)		10/31/19		X					
2	Bottom Hole #2 (1' BEB)				X					1	2	
3	Bottom Hole #3 (1' BEB)				X					1	2	
4	Bottom Hole #4 (1' BEB)				X					1	2	
5	Bottom Hole #5 (1' BEB)				X					1	2	
6	Bottom Hole #6 (1' BEB)				X					1	2	
7	Bottom Hole #7 (1' BEB)				X					1	2	
8	Bottom Hole #8 (1' BEB)				X					1	2	
9	Bottom Hole #9 (1' BEB)				X					1	2	
10	Bottom Hole #10 (2' BEB)				X					1	2	

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

ANALYSIS REQUEST (Circle or Specify Method No.)
BTEX 8021B BTEX 8260B
TPH TX1005 (Ext to C35)
TPH 8015M (GRO - DRO - ORO - MRO)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C/625
PCB's 8082 / 608
NORM
PLM (Asbestos)
Chloride
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance
Hold

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



Tetra Tech, Inc.

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

[illegible]

ORIGINAL COPY

cc jo cc eba d

Analysis Request of Chain of Custody Record

Page 3 of 3



Tetra Tech, Inc.

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

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Neptune 10 St CTB			
Project Location: Lea Co, NM		Project #: 212C-MD-01816	
Invoice to: EOG - James Kennedy		Todd Wells	
Receiving Laboratory: Cardinal		Sampler Signature: Conner Moehring	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
21	East #2 Sidewalk	10/31/19		X					1	2	
22	East #3 Sidewalk	10/31/19		X					1	2	
23	West #1 Sidewalk	10/31/19		X					1	2	
24	West #2 Sidewalk	10/31/19		X					1	2	
25	West #3 Sidewalk	10/31/19		X					1	2	
26	South #1 Sidewalk	10/31/19		X					1	2	
27	South #2 Sidewalk	10/31/19		X					1	2	
28	South #3 Sidewalk	10/31/19		X					1	2	

Reinquished by:	Date:	Time:	Received by:	Date:	Time:
James Kennedy	10/31/19	1500	Conner Moehring	10/31/19	1500
Reinquished by:	Date:	Time:	Received by:	Date:	Time:

Reinquished by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTX 8021B BTX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M (GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

REMARKS:

LAB USE ONLY

STANDARD

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 06, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: NEPTUNE 10 ST CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/05/19 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/05/2019	Sampling Date:	11/05/2019
Reported:	11/06/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 16 (3' BEB) (H903768-01)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTEX	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

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	11/06/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/05/2019	Sampling Date:	11/05/2019
Reported:	11/06/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 17 (3' BEB) (H903768-02)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 18 (3' BEB) (H903768-03)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/05/2019	Sampling Date:	11/05/2019
Reported:	11/06/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 19 (1' BEB) (H903768-04)

BTX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTX	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/05/2019	Sampling Date:	11/05/2019
Reported:	11/06/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 20 (1' BEB) (H903768-05)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/05/2019	Sampling Date:	11/05/2019
Reported:	11/06/2019	Sampling Type:	Soil
Project Name:	NEPTUNE 10 ST CTB	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01816	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE # 21 (1' BEB) (H903768-06)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

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	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 22 (1' BEB) (H903768-07)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.81	90.7	2.00	6.60		
Toluene*	<0.050	0.050	11/06/2019	ND	1.82	90.8	2.00	6.49		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.84	92.2	2.00	6.38		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.48	91.3	6.00	6.63		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 23 (2' BEB) (H903768-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE # 24 (2' BEB) (H903768-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH 5 SIDEWALL (H903768-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	11/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH 6 SIDEWALL (H903768-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 79.5 % 73.3-129

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	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH 7 SIDEWALL (H903768-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4		
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.2 % 73.3-129

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	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST 4 SIDEWALL (H903768-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST 5 SIDEWALL (H903768-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4		
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST 6 SIDEWALL (H903768-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST 4 SIDEWALL (H903768-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.3 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST 5 SIDEWALL (H903768-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST 6 SIDEWALL (H903768-18)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 74.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH 4 SIDEWALL (H903768-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 97.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH 5 SIDEWALL (H903768-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4		
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28		
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58		
Total BTEx	<0.300	0.300	11/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 73.3-129

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	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 94.7 % 41-142

Surrogate: 1-Chlorooctadecane 98.0 % 37.6-147

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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
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 11/05/2019
 Reported: 11/06/2019
 Project Name: NEPTUNE 10 ST CTB
 Project Number: 212C-MD-01816
 Project Location: EOG - LEA CO NM

Sampling Date: 11/05/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH 6 SIDEWALL (H903768-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.89	94.6	2.00	11.4	
Toluene*	<0.050	0.050	11/06/2019	ND	1.61	80.6	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.74	87.0	2.00	8.28	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.20	86.7	6.00	8.58	
Total BTX	<0.300	0.300	11/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/06/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	206	103	200	1.90	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	193	96.4	200	7.90	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

Surrogate: 1-Chlorooctane 93.7 % 41-142

Surrogate: 1-Chlorooctadecane 96.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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 "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: EOG Site Manager: Mike Carmona

Project Name: Neptune 10 St CTB

Project Location: Lea Co, NM Project #: 212C-MD-01816

 Invoice to: EOG - ~~XXXXXXXXXX~~ TODD WELLS

Receiving Laboratory: Cardinal Sampler Signature: Conner Moehring

Comments:

 LAB # **A903168**
 (LAB USE ONLY)

SAMPLE IDENTIFICATION

		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
1	Bottom Hole #16 (3' BEB)	11/5/19		X			X	1	2
2	Bottom Hole #17 (3' BEB)								
3	Bottom Hole #18 (3' BEB)								
4	Bottom Hole #19 (1' BEB)								
5	Bottom Hole #20 (1' BEB)								
6	Bottom Hole #21 (1' BEB)								
7	Bottom Hole #22 (1' BEB)								
8	Bottom Hole #23 (2' BEB)								
9	Bottom Hole #24 (2' BEB)								
10	North S Sidewall								

 Relinquished by: *Ben Murphy* Date: 11/5/19 Time: 1345 Received by: *Juanita Oladokun* Date: 11-5-19 Time: 1345

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

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS:

☐ STANDARD
☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

 Sample Temperature
 2.1°C #47
 Corrected
 2.5°C

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Neptune 10 St CTB		Project #: 212C-MD-01816	
Project Location: Lea Co, NM (county, state)		Project #:	
Invoice to: EOG - Cardinal TODD WELLS		Sampler Signature: Conner Moehring	
Receiving Laboratory: Cardinal		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		YEAR: 2019	DATE		TIME	WATER	SOIL	HCL				HNO ₃
11	NORTH 6 SIDEWALL		11/5/19		X			X		1	X	BTEX 8021B BTEX 8260B
12	NORTH 7 SIDEWALL									2	X	TPH TX1005 (Ext to C35)
13	EAST 4 SIDEWALL										X	TPH 8015M (GRO - DRO - ORO - MRO)
14	EAST 5 SIDEWALL											PAH 8270C
15	EAST 6 SIDEWALL											Total Metals Ag As Ba Cd Cr Pb Se Hg
16	WEST 4 SIDEWALL											TCLP Metals Ag As Ba Cd Cr Pb Se Hg
17	WEST 5 SIDEWALL											TCLP Volatiles
18	WEST 6 SIDEWALL											TCLP Semi Volatiles
19	SOUTH 4 SIDEWALL											RCI
20	SOUTH 5 SIDEWALL											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>Conner Moehring</i>	Date: 11/5/19	Time: 1435	Received by: <i>Conner Moehring</i>	Date: 11-5-19	Time: 1345
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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ORIGINAL COPY

LAB USE ONLY

REMARKS:

STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

92 jo 92 egaD

Analysis Request of Chain of Custody Record

Page 3 of 3



Tetra Tech, Inc.

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

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Neptune 10 St CTB

Project Location:

Lea Co, NM

Project #:

212C-MD-01816

Invoice to:

EOG - ~~James Romberg~~ TODD WEUS

Receiving Laboratory:

Cardinal

Sampler Signature:

Conner Moehring

Comments:

SAMPLE IDENTIFICATION

LAB #

LAB USE ONLY

21

South & Sidewall

SAMPLING

YEAR: 2019

DATE

TIME

11/5/19

MATRIX

WATER

SOIL

HCL

HNO₃

ICE

None

CONTAINERS

FILTERED (Y/N)

X BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

X 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)

X Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY

REMARKS:

STANDARD

RUSH:

Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature

2.1°C #47

Corrected 2.5°C

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-001	629653-002	629653-003	629653-004	629653-005	629653-006
	<i>Field Id:</i>	AH 1 (0-1')	AH 1 (1-1.5')	AH 1 (2-2.5')	AH 1 (3-3.5')	AH 1 (4-4.5')	AH 1 (5-5.5')
	<i>Depth:</i>	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	5-5.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20	Jul-08-19 12:20				
	<i>Analyzed:</i>	Jul-09-19 12:02	Jul-09-19 12:25				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00201 0.00201				
Toluene		<0.00200 0.00200	<0.00201 0.00201				
Ethylbenzene		0.00286 0.00200	<0.00201 0.00201				
m,p-Xylenes		<0.00400 0.00400	<0.00402 0.00402				
o-Xylene		<0.00200 0.00200	<0.00201 0.00201				
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201				
Total BTEX		0.00286 0.00200	<0.00201 0.00201				
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:20	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30
	<i>Analyzed:</i>	Jul-03-19 03:26	Jul-03-19 04:32	Jul-03-19 08:17	Jul-03-19 04:10	Jul-03-19 04:46	Jul-03-19 04:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		18.5 5.04	4940 24.9	1470 4.99	57.2 5.00	84.0 4.95	25.4 4.98
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00	Jul-04-19 08:00				
	<i>Analyzed:</i>	Jul-04-19 11:08	Jul-04-19 12:20				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<14.9 14.9				
Diesel Range Organics (DRO)		<15.0 15.0	<14.9 14.9				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<14.9 14.9				
Total TPH		<15.0 15.0	<14.9 14.9				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-007	629653-008	629653-009	629653-010	629653-011	629653-012
	<i>Field Id:</i>	AH 2 (0-1')	AH 2 (1-1.5')	AH 2 (2-2.5')	AH 2 (3-3.5')	AH 2 (4-4.5')	AH 3 (0-1')
	<i>Depth:</i>	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	0-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20	Jul-08-19 12:20				Jul-08-19 12:20
	<i>Analyzed:</i>	Jul-09-19 12:48	Jul-09-19 13:11				Jul-09-19 13:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Benzene		<0.00201 0.00201	<0.00198 0.00198				<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00198 0.00198				<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198				<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00397 0.00397				<0.00401 0.00401
o-Xylene		<0.00201 0.00201	<0.00198 0.00198				<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198				<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00198 0.00198				<0.00200 0.00200
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30
	<i>Analyzed:</i>	Jul-03-19 05:15	Jul-03-19 05:22	Jul-03-19 05:30	Jul-03-19 05:37	Jul-03-19 05:51	Jul-03-19 05:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		909 5.02	354 4.95	218 5.04	301 5.00	126 25.1	974 5.01
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00	Jul-04-19 08:00				Jul-04-19 08:00
	<i>Analyzed:</i>	Jul-04-19 12:44	Jul-04-19 13:08				Jul-04-19 13:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0				<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				<15.0 15.0
Total TPH		<15.0 15.0	<15.0 15.0				<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-013	629653-014	629653-015	629653-016	629653-017	629653-018
	<i>Field Id:</i>	AH 3 (1-1.5')	AH 3 (2-2.5')	AH3 (3-3.5')	AH3 (4-4.5')	AH3 (5-5.5')	AH4 (0-1')
	<i>Depth:</i>	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	5-5.5 ft	0-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20					Jul-08-19 12:20
	<i>Analyzed:</i>	Jul-09-19 13:57					Jul-09-19 14:20
	<i>Units/RL:</i>	mg/kg RL					mg/kg RL
Benzene		<0.00199 0.00199					<0.00199 0.00199
Toluene		<0.00199 0.00199					<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199					<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398					<0.00398 0.00398
o-Xylene		<0.00199 0.00199					<0.00199 0.00199
Total Xylenes		<0.00199 0.00199					<0.00199 0.00199
Total BTEX		<0.00199 0.00199					<0.00199 0.00199
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30
	<i>Analyzed:</i>	Jul-03-19 06:13	Jul-03-19 06:20	Jul-03-19 06:42	Jul-03-19 06:49	Jul-03-19 06:57	Jul-03-19 07:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		841 5.00	204 5.05	156 4.98	88.9 4.96	37.9 4.97	11.1 5.04
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00					Jul-04-19 08:00
	<i>Analyzed:</i>	Jul-04-19 13:57					Jul-04-19 14:21
	<i>Units/RL:</i>	mg/kg RL					mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0					<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0					<15.0 15.0
Total TPH		<15.0 15.0					<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-019	629653-020	629653-021	629653-022	629653-023	629653-024
	<i>Field Id:</i>	AH4 (1-1.5')	AH4 (2-2.5')	AH4 (3-3.5')	AH4 (4-4.5')	AH5 (0-1')	AH5 (1-1.5')
	<i>Depth:</i>	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	0-1 ft	1-1.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20				Jul-08-19 12:20	Jul-08-19 12:20
	<i>Analyzed:</i>	Jul-09-19 14:43				Jul-09-19 15:07	Jul-09-19 16:53
	<i>Units/RL:</i>	mg/kg RL				mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200				<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00200 0.00200				<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200				<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399				<0.00403 0.00403	<0.00399 0.00399
o-Xylene		<0.00200 0.00200				<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200				<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00200 0.00200				<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:30	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50
	<i>Analyzed:</i>	Jul-03-19 07:11	Jul-03-19 07:18	Jul-03-19 07:26	Jul-02-19 19:44	Jul-02-19 19:59	Jul-02-19 20:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		75.9 4.99	171 4.95	92.9 5.00	70.6 5.00	2080 24.8	1090 25.1
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00				Jul-04-19 08:00	Jul-04-19 08:00
	<i>Analyzed:</i>	Jul-04-19 14:45				Jul-04-19 15:09	Jul-04-19 15:33
	<i>Units/RL:</i>	mg/kg RL				mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0				<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)		<15.0 15.0				<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0				<15.0 15.0	<15.0 15.0
Total TPH		<15.0 15.0				<15.0 15.0	<15.0 15.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-025	629653-026	629653-027	629653-028	629653-029	629653-030
	<i>Field Id:</i>	AH5 (2-2.5')	AH5 (3-3.5')	AH5 (4-4.5')	AH5 (5-5.5')	AH5 (6-6.5')	AH5 (7-7.5')
	<i>Depth:</i>	2-2.5 ft	3-3.5 ft	4-4.5 ft	5-5.5 ft	6-6.5 ft	7-7.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50
	<i>Analyzed:</i>	Jul-02-19 20:09	Jul-02-19 20:13	Jul-02-19 20:28	Jul-02-19 20:33	Jul-02-19 20:38	Jul-02-19 20:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		567 4.98	229 24.9	301 25.0	307 25.0	196 25.0	437 25.0

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-031	629653-032	629653-033	629653-034	629653-035	629653-036
	<i>Field Id:</i>	AH6 (0-1')	AH6 (1-1.5')	AH6 (2-2.5')	AH6 (3-3.5')	AH6 (4-4.5')	AH6 (5-5.5')
	<i>Depth:</i>	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	5-5.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20	Jul-08-19 12:20				
	<i>Analyzed:</i>	Jul-09-19 17:16	Jul-09-19 17:39				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00200 0.00200				
Toluene		<0.00200 0.00200	<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200				
m,p-Xylenes		<0.00400 0.00400	<0.00399 0.00399				
o-Xylene		<0.00200 0.00200	<0.00200 0.00200				
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200				
Total BTEX		<0.00200 0.00200	<0.00200 0.00200				
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50
	<i>Analyzed:</i>	Jul-02-19 20:47	Jul-02-19 20:52	Jul-02-19 21:07	Jul-02-19 21:11	Jul-02-19 21:26	Jul-03-19 08:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4380 24.8	585 5.02	99.8 4.99	127 5.05	28.3 4.97	33.1 4.95
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00	Jul-04-19 08:00				
	<i>Analyzed:</i>	Jul-04-19 16:21	Jul-04-19 16:45				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				
Total TPH		<15.0 15.0	<15.0 15.0				

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-037	629653-038	629653-039	629653-040	629653-041	629653-042
	<i>Field Id:</i>	AH7 (0-1')	AH7 (1-1.5')	AH7 (2-2.5')	AH7 (3-3.5')	AH7 (4-4.5')	AH8 (0-1')
	<i>Depth:</i>	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft	0-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20	Jul-08-19 12:20				Jul-08-19 12:20
	<i>Analyzed:</i>	Jul-09-19 18:03	Jul-09-19 18:26				Jul-09-19 18:49
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201				<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00201 0.00201				<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201				<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402				<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00201 0.00201				<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201				<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00201 0.00201				<0.00199 0.00199
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-02-19 16:50	Jul-03-19 16:15
	<i>Analyzed:</i>	Jul-02-19 21:36	Jul-02-19 21:41	Jul-02-19 21:45	Jul-02-19 21:50	Jul-02-19 21:55	Jul-03-19 19:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3850 25.2	513 4.95	14.7 5.01	11.0 4.99	93.4 4.97	2390 24.9
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00	Jul-04-19 08:00				Jul-04-19 08:00
	<i>Analyzed:</i>	Jul-04-19 17:09	Jul-04-19 17:33				Jul-04-19 17:57
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				<14.9 14.9
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0				<14.9 14.9
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				<14.9 14.9
Total TPH		<15.0 15.0	<15.0 15.0				<14.9 14.9

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

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Report Date: 11-JUL-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	629653-043	629653-044	629653-045	629653-046	629653-047	629653-048
	<i>Field Id:</i>	AH8 (1-1.5')	AH9 (0-1')	AH9 (1-1.5')	AH9 (2-2.5')	AH9 (3-3.5')	AH9 (4-4.5')
	<i>Depth:</i>	1-1.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	4-4.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00	Jun-27-19 00:00
BTEX by EPA 8021B SUB: T104704400-18-16	<i>Extracted:</i>	Jul-08-19 12:20	Jul-08-19 12:20	Jul-08-19 12:20			
	<i>Analyzed:</i>	Jul-09-19 19:12	Jul-09-19 19:35	Jul-09-19 19:58			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199			
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199			
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199			
m,p-Xylenes		<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398			
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199			
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199			
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199			
Chloride by EPA 300 SUB: T104704400-18-16	<i>Extracted:</i>	Jul-03-19 16:15	Jul-03-19 16:15	Jul-03-19 16:15	Jul-03-19 16:15	Jul-03-19 16:15	Jul-03-19 16:15
	<i>Analyzed:</i>	Jul-03-19 19:23	Jul-03-19 19:27	Jul-03-19 19:32	Jul-03-19 19:52	Jul-03-19 19:56	Jul-03-19 18:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		905 5.00	906 5.00	102 5.01	99.8 5.05	65.9 4.96	10.5 5.03
TPH By SW8015 Mod SUB: T104704400-18-16	<i>Extracted:</i>	Jul-04-19 08:00	Jul-04-19 08:00	Jul-04-19 08:00			
	<i>Analyzed:</i>	Jul-04-19 18:21	Jul-04-19 18:45	Jul-04-19 19:09			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0			
Total TPH		<15.0 15.0	<15.0 15.0	<15.0 15.0			

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 629653

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Neptune 10- State CTB

Project Id:

Contact: Clair Gonzales

Project Location: Lea County, NM

Date Received in Lab: Mon Jul-01-19 01:00 pm

Report Date: 11-JUL-19

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	629653-049					
	Field Id:	AH9 (5-5.5')					
	Depth:	5-5.5 ft					
	Matrix:	SOIL					
	Sampled:	Jun-27-19 00:00					
Chloride by EPA 300 SUB: T104704400-18-16	Extracted:	Jul-03-19 16:15					
	Analyzed:	Jul-03-19 19:37					
	Units/RL:	mg/kg RL					
Chloride		12.0 4.99					

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Jessica Kramer
Project Assistant

Analytical Report 629653

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

EOG - Neptune 10- State CTB

11-JUL-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11-JUL-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **629653**

EOG - Neptune 10- State CTB

Project Address: Lea County, NM

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 629653. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 629653 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH 1 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-001
AH 1 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-002
AH 1 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-003
AH 1 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-004
AH 1 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-005
AH 1 (5-5.5')	S	06-27-19 00:00	5 - 5.5 ft	629653-006
AH 2 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-007
AH 2 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-008
AH 2 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-009
AH 2 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-010
AH 2 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-011
AH 3 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-012
AH 3 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-013
AH 3 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-014
AH3 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-015
AH3 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-016
AH3 (5-5.5')	S	06-27-19 00:00	5 - 5.5 ft	629653-017
AH4 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-018
AH4 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-019
AH4 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-020
AH4 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-021
AH4 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-022
AH5 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-023
AH5 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-024
AH5 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-025
AH5 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-026
AH5 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-027
AH5 (5-5.5')	S	06-27-19 00:00	5 - 5.5 ft	629653-028
AH5 (6-6.5')	S	06-27-19 00:00	6 - 6.5 ft	629653-029
AH5 (7-7.5')	S	06-27-19 00:00	7 - 7.5 ft	629653-030
AH6 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-031
AH6 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-032
AH6 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-033
AH6 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-034
AH6 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-035
AH6 (5-5.5')	S	06-27-19 00:00	5 - 5.5 ft	629653-036
AH7 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-037
AH7 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-038
AH7 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-039
AH7 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-040
AH7 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-041
AH8 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-042
AH8 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-043

**Sample Cross Reference 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

AH9 (0-1')	S	06-27-19 00:00	0 - 1 ft	629653-044
AH9 (1-1.5')	S	06-27-19 00:00	1 - 1.5 ft	629653-045
AH9 (2-2.5')	S	06-27-19 00:00	2 - 2.5 ft	629653-046
AH9 (3-3.5')	S	06-27-19 00:00	3 - 3.5 ft	629653-047
AH9 (4-4.5')	S	06-27-19 00:00	4 - 4.5 ft	629653-048
AH9 (5-5.5')	S	06-27-19 00:00	5 - 5.5 ft	629653-049

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: EOG - Neptune 10- State CTB**Project ID:
Work Order Number(s): 629653Report Date: 11-JUL-19
Date Received: 07/01/2019**Sample receipt non conformances and comments:**

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3094272 Chloride by EPA 300

Lab Sample ID 629653-032 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 629653-022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041.

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

Batch: LBA-3094286 Chloride by EPA 300

Lab Sample ID 629653-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 629653-002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021.

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

Batch: LBA-3094460 TPH By SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 629653-001 SD, 629653-018.

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 629653-043.

Batch: LBA-3094951 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 629653-042.



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-001

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.20

Basis: Wet Weight

Seq Number: 3094285

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.5	5.04	mg/kg	07.03.19 03.26		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 11.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 11.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 11.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 11.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	07.04.19 11.08	
o-Terphenyl	84-15-1	128	%	70-135	07.04.19 11.08	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-001

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 12.02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 12.02	U	1
Ethylbenzene	100-41-4	0.00286	0.00200	mg/kg	07.09.19 12.02		1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.09.19 12.02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 12.02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 12.02	U	1
Total BTEX		0.00286	0.00200	mg/kg	07.09.19 12.02		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.09.19 12.02		
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.09.19 12.02		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-002

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4940	24.9	mg/kg	07.03.19 04.32		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.04.19 12.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.04.19 12.20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	07.04.19 12.20	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.04.19 12.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	07.04.19 12.20	
o-Terphenyl	84-15-1	120	%	70-135	07.04.19 12.20	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-002

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.09.19 12.25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.09.19 12.25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.09.19 12.25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.09.19 12.25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.09.19 12.25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.09.19 12.25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.09.19 12.25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.09.19 12.25		
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.09.19 12.25		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH 1 (2-2.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-003

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1470	4.99	mg/kg	07.03.19 08.17		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH 1 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-004

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.2	5.00	mg/kg	07.03.19 04.10		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH 1 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-005

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.0	4.95	mg/kg	07.03.19 04.46		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH 1 (5-5.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-006

Date Collected: 06.27.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.4	4.98	mg/kg	07.03.19 04.53		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-007

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	909	5.02	mg/kg	07.03.19 05.15		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 12.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 12.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 12.44	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 12.44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	122	%	70-135	07.04.19 12.44		
o-Terphenyl	84-15-1	117	%	70-135	07.04.19 12.44		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-007

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.09.19 12.48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.09.19 12.48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.09.19 12.48	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.09.19 12.48	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.09.19 12.48	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.09.19 12.48	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.09.19 12.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.09.19 12.48		
1,4-Difluorobenzene	540-36-3	90	%	70-130	07.09.19 12.48		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-008

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	354	4.95	mg/kg	07.03.19 05.22		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 13.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 13.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 13.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 13.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	07.04.19 13.08	
o-Terphenyl	84-15-1	122	%	70-135	07.04.19 13.08	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-008

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.09.19 13.11	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.09.19 13.11	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.09.19 13.11	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.09.19 13.11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.09.19 13.11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.09.19 13.11	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.09.19 13.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.09.19 13.11		
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.09.19 13.11		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-009

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	218	5.04	mg/kg	07.03.19 05.30		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH 2 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-010

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	301	5.00	mg/kg	07.03.19 05.37		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH 2 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-011

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	126	25.1	mg/kg	07.03.19 05.51		5



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-012

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	974	5.01	mg/kg	07.03.19 05.44		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 13.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 13.32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 13.32	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 13.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	07.04.19 13.32	
o-Terphenyl	84-15-1	109	%	70-135	07.04.19 13.32	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-012

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 13.34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 13.34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 13.34	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.09.19 13.34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 13.34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 13.34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 13.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	07.09.19 13.34		
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.09.19 13.34		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-013

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	841	5.00	mg/kg	07.03.19 06.13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 13.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 13.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 13.57	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 13.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	07.04.19 13.57		
o-Terphenyl	84-15-1	112	%	70-135	07.04.19 13.57		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-013

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.19 13.57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.09.19 13.57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.19 13.57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.19 13.57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.19 13.57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.19 13.57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.09.19 13.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	07.09.19 13.57		
4-Bromofluorobenzene	460-00-4	110	%	70-130	07.09.19 13.57		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

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

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-014

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	5.05	mg/kg	07.03.19 06.20		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH3 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-015

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	156	4.98	mg/kg	07.03.19 06.42		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH3 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-016

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.9	4.96	mg/kg	07.03.19 06.49		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH3 (5-5.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-017

Date Collected: 06.27.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	37.9	4.97	mg/kg	07.03.19 06.57		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH4 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-018

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.1	5.04	mg/kg	07.03.19 07.04		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 14.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 14.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 14.21	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 14.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	07.04.19 14.21	
o-Terphenyl	84-15-1	136	%	70-135	07.04.19 14.21	**



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH4 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-018

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.19 14.20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.09.19 14.20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.19 14.20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.19 14.20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.19 14.20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.19 14.20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.09.19 14.20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.09.19 14.20		
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.09.19 14.20		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH4 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-019

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.9	4.99	mg/kg	07.03.19 07.11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 14.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 14.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 14.45	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 14.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	07.04.19 14.45	
o-Terphenyl	84-15-1	114	%	70-135	07.04.19 14.45	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH4 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-019

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 14.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 14.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 14.43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.09.19 14.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 14.43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 14.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 14.43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	07.09.19 14.43		
4-Bromofluorobenzene	460-00-4	112	%	70-130	07.09.19 14.43		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH4 (2-2.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-020

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	171	4.95	mg/kg	07.03.19 07.18		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH4 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-021

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.30

Basis: Wet Weight

Seq Number: 3094286

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.9	5.00	mg/kg	07.03.19 07.26		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH4 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-022

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	70.6	5.00	mg/kg	07.02.19 19.44		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: AH5 (0-1')

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-023

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2080	24.8	mg/kg	07.02.19 19.59		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 15.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 15.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 15.09	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 15.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	07.04.19 15.09	
o-Terphenyl	84-15-1	100	%	70-135	07.04.19 15.09	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH5 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-023

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.09.19 15.07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.09.19 15.07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.09.19 15.07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.09.19 15.07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.09.19 15.07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.09.19 15.07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.09.19 15.07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	07.09.19 15.07		
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.09.19 15.07		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH5 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-024

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1090	25.1	mg/kg	07.02.19 20.04		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 15.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 15.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 15.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 15.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	07.04.19 15.33	
o-Terphenyl	84-15-1	124	%	70-135	07.04.19 15.33	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH5 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-024

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 16.53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 16.53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 16.53	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.09.19 16.53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 16.53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 16.53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 16.53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	07.09.19 16.53		
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.09.19 16.53		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH5 (2-2.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-025

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	567	4.98	mg/kg	07.02.19 20.09		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH5 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-026

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	229	24.9	mg/kg	07.02.19 20.13		5

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH5 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-027

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	301	25.0	mg/kg	07.02.19 20.28		5

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH5 (5-5.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-028

Date Collected: 06.27.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	307	25.0	mg/kg	07.02.19 20.33		5

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH5 (6-6.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-029

Date Collected: 06.27.19 00.00

Sample Depth: 6 - 6.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	196	25.0	mg/kg	07.02.19 20.38		5

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH5 (7-7.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-030

Date Collected: 06.27.19 00.00

Sample Depth: 7 - 7.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	437	25.0	mg/kg	07.02.19 20.42		5



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH6 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-031

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4380	24.8	mg/kg	07.02.19 20.47		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 16.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 16.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 16.21	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 16.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	07.04.19 16.21	
o-Terphenyl	84-15-1	119	%	70-135	07.04.19 16.21	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH6 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-031

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 17.16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 17.16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 17.16	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.09.19 17.16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 17.16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 17.16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 17.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.09.19 17.16		
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.09.19 17.16		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH6 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-032

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	585	5.02	mg/kg	07.02.19 20.52		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 16.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 16.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 16.45	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 16.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	131	%	70-135	07.04.19 16.45	
o-Terphenyl	84-15-1	128	%	70-135	07.04.19 16.45	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH6 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-032

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 17.39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 17.39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 17.39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.09.19 17.39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 17.39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 17.39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 17.39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	07.09.19 17.39		
1,4-Difluorobenzene	540-36-3	90	%	70-130	07.09.19 17.39		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH6 (2-2.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-033

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.8	4.99	mg/kg	07.02.19 21.07		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH6 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-034

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	127	5.05	mg/kg	07.02.19 21.11		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH6 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-035

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.3	4.97	mg/kg	07.02.19 21.26		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH6 (5-5.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-036

Date Collected: 06.27.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.1	4.95	mg/kg	07.03.19 08.20		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH7 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-037

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3850	25.2	mg/kg	07.02.19 21.36		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 17.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 17.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 17.09	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 17.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	07.04.19 17.09	
o-Terphenyl	84-15-1	102	%	70-135	07.04.19 17.09	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH7 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-037

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.19 18.03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.09.19 18.03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.19 18.03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.19 18.03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.19 18.03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.19 18.03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.09.19 18.03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.09.19 18.03		
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.09.19 18.03		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH7 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-038

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	513	4.95	mg/kg	07.02.19 21.41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 17.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 17.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 17.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 17.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	07.04.19 17.33	
o-Terphenyl	84-15-1	112	%	70-135	07.04.19 17.33	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH7 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-038

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.09.19 18.26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.09.19 18.26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.09.19 18.26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.09.19 18.26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.09.19 18.26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.09.19 18.26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.09.19 18.26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	07.09.19 18.26		
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.09.19 18.26		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH7 (2-2.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-039

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.7	5.01	mg/kg	07.02.19 21.45		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH7 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-040

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.0	4.99	mg/kg	07.02.19 21.50		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH7 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-041

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.02.19 16.50

Basis: Wet Weight

Seq Number: 3094272

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.4	4.97	mg/kg	07.02.19 21.55		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH8 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-042

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2390	24.9	mg/kg	07.03.19 19.18		5

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	07.04.19 17.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<14.9	14.9	mg/kg	07.04.19 17.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	07.04.19 17.57	U	1
Total TPH	PHC635	<14.9	14.9	mg/kg	07.04.19 17.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	07.04.19 17.57	
o-Terphenyl	84-15-1	120	%	70-135	07.04.19 17.57	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH8 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-042

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.19 18.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.09.19 18.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.19 18.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.19 18.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.19 18.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.19 18.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.09.19 18.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	164	%	70-130	07.09.19 18.49	**	
1,4-Difluorobenzene	540-36-3	87	%	70-130	07.09.19 18.49		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH8 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-043

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	905	5.00	mg/kg	07.03.19 19.23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 18.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 18.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 18.21	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 18.21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	142	%	70-135	07.04.19 18.21	**	
o-Terphenyl	84-15-1	135	%	70-135	07.04.19 18.21		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH8 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-043

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 19.12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 19.12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 19.12	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.09.19 19.12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 19.12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 19.12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 19.12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.09.19 19.12		
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.09.19 19.12		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH9 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-044

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	906	5.00	mg/kg	07.03.19 19.27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 18.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 18.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 18.45	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 18.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	07.04.19 18.45	
o-Terphenyl	84-15-1	109	%	70-135	07.04.19 18.45	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH9 (0-1')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-044

Date Collected: 06.27.19 00.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.09.19 19.35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.09.19 19.35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.09.19 19.35	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.09.19 19.35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.09.19 19.35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.09.19 19.35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.09.19 19.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	91	%	70-130	07.09.19 19.35		
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.09.19 19.35		



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH9 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-045

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.01	mg/kg	07.03.19 19.32		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.04.19 08.00

Basis: Wet Weight

Seq Number: 3094460

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	07.04.19 19.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	07.04.19 19.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	07.04.19 19.09	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	07.04.19 19.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	07.04.19 19.09	
o-Terphenyl	84-15-1	106	%	70-135	07.04.19 19.09	



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH9 (1-1.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-045

Date Collected: 06.27.19 00.00

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: AMB

Date Prep: 07.08.19 12.20

Basis: Wet Weight

Seq Number: 3094951

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.09.19 19.58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.09.19 19.58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.09.19 19.58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.09.19 19.58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.09.19 19.58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.09.19 19.58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.09.19 19.58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	89	%	70-130	07.09.19 19.58		
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.09.19 19.58		

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH9 (2-2.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-046

Date Collected: 06.27.19 00.00

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.8	5.05	mg/kg	07.03.19 19.52		1



Certificate of Analytical Results 629653

Tetra Tech- Midland, Midland, TX

EOG - Neptune 10- State CTB

Sample Id: **AH9 (3-3.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-047

Date Collected: 06.27.19 00.00

Sample Depth: 3 - 3.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.9	4.96	mg/kg	07.03.19 19.56		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH9 (4-4.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-048

Date Collected: 06.27.19 00.00

Sample Depth: 4 - 4.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.5	5.03	mg/kg	07.03.19 18.29		1

**Certificate of Analytical Results 629653****Tetra Tech- Midland, Midland, TX**

EOG - Neptune 10- State CTB

Sample Id: **AH9 (5-5.5')**

Matrix: Soil

Date Received: 07.01.19 13.00

Lab Sample Id: 629653-049

Date Collected: 06.27.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.03.19 16.15

Basis: Wet Weight

Seq Number: 3094423

SUB: T104704400-18-16

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.0	4.99	mg/kg	07.03.19 19.37		1



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland
EOG - Neptune 10- State CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3094285

MB Sample Id: 7681270-1-BLK

Matrix: Solid

LCS Sample Id: 7681270-1-BKS

Prep Method: E300P

Date Prep: 07.02.19

LCSD Sample Id: 7681270-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	252	101	252	101	90-110	0	20	mg/kg	07.02.19 23:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3094286

MB Sample Id: 7681271-1-BLK

Matrix: Solid

LCS Sample Id: 7681271-1-BKS

Prep Method: E300P

Date Prep: 07.02.19

LCSD Sample Id: 7681271-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	255	102	90-110	0	20	mg/kg	07.03.19 03:55	

Analytical Method: Chloride by EPA 300

Seq Number: 3094272

MB Sample Id: 7681272-1-BLK

Matrix: Solid

LCS Sample Id: 7681272-1-BKS

Prep Method: E300P

Date Prep: 07.02.19

LCSD Sample Id: 7681272-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	251	100	250	100	90-110	0	20	mg/kg	07.02.19 19:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3094423

MB Sample Id: 7681374-1-BLK

Matrix: Solid

LCS Sample Id: 7681374-1-BKS

Prep Method: E300P

Date Prep: 07.03.19

LCSD Sample Id: 7681374-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	239	96	239	96	90-110	0	20	mg/kg	07.03.19 18:20	

Analytical Method: Chloride by EPA 300

Seq Number: 3094285

Parent Sample Id: 629639-005

Matrix: Soil

MS Sample Id: 629639-005 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629639-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.864	252	253	100	254	101	90-110	0	20	mg/kg	07.03.19 00:18	

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

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

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

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



Tetra Tech- Midland
EOG - Neptune 10- State CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3094285

Parent Sample Id: 629639-015

Matrix: Soil

MS Sample Id: 629639-015 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629639-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	117	250	368	100	367	100	90-110	0	20	mg/kg	07.03.19 01:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3094286

Parent Sample Id: 629653-004

Matrix: Soil

MS Sample Id: 629653-004 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629653-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.2	250	309	101	309	101	90-110	0	20	mg/kg	07.03.19 04:17	

Analytical Method: Chloride by EPA 300

Seq Number: 3094286

Parent Sample Id: 629653-011

Matrix: Soil

MS Sample Id: 629653-011 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629653-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	126	251	293	67	292	66	90-110	0	20	mg/kg	07.03.19 05:59	X

Analytical Method: Chloride by EPA 300

Seq Number: 3094272

Parent Sample Id: 629653-022

Matrix: Soil

MS Sample Id: 629653-022 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629653-022 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	70.6	250	313	97	312	97	90-110	0	20	mg/kg	07.02.19 19:49	

Analytical Method: Chloride by EPA 300

Seq Number: 3094272

Parent Sample Id: 629653-032

Matrix: Soil

MS Sample Id: 629653-032 S

Prep Method: E300P

Date Prep: 07.02.19

MSD Sample Id: 629653-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	585	251	789	81	790	82	90-110	0	20	mg/kg	07.02.19 20:57	X

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

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

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

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



Tetra Tech- Midland
EOG - Neptune 10- State CTB

Analytical Method: Chloride by EPA 300

Seq Number: 3094423

Parent Sample Id: 629653-048

Matrix: Soil

MS Sample Id: 629653-048 S

Prep Method: E300P

Date Prep: 07.03.19

MSD Sample Id: 629653-048 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.5	252	268	102	269	103	90-110	0	20	mg/kg	07.03.19 18:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3094423

Parent Sample Id: 629653-049

Matrix: Soil

MS Sample Id: 629653-049 S

Prep Method: E300P

Date Prep: 07.03.19

MSD Sample Id: 629653-049 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	12.0	250	268	102	265	101	90-110	1	20	mg/kg	07.03.19 19:42	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3094460

MB Sample Id: 7681386-1-BLK

Matrix: Solid

LCS Sample Id: 7681386-1-BKS

Prep Method: TX1005P

Date Prep: 07.04.19

LCSD Sample Id: 7681386-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1120	112	1150	115	70-135	3	20	mg/kg	07.04.19 10:18	
Diesel Range Organics (DRO)	<8.13	1000	1120	112	1100	110	70-135	2	20	mg/kg	07.04.19 10:18	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane	112		114		102		70-135	%	07.04.19 10:18			
o-Terphenyl	113		130		115		70-135	%	07.04.19 10:18			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3094460

Parent Sample Id: 629653-001

Matrix: Soil

MS Sample Id: 629653-001 S

Prep Method: TX1005P

Date Prep: 07.04.19

MSD Sample Id: 629653-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	14.5	998	1190	118	1190	118	70-135	0	20	mg/kg	07.04.19 11:32	
Diesel Range Organics (DRO)	12.4	998	1150	114	1220	121	70-135	6	20	mg/kg	07.04.19 11:32	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date			
1-Chlorooctane			112		109		70-135	%	07.04.19 11:32			
o-Terphenyl			128		136	**	70-135	%	07.04.19 11:32			

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

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

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

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



Tetra Tech- Midland
EOG - Neptune 10- State CTB

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094951

MB Sample Id: 7681537-1-BLK

Matrix: Solid

LCS Sample Id: 7681537-1-BKS

Prep Method: SW5030B

Date Prep: 07.08.19

LCSD Sample Id: 7681537-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0778	78	0.0883	88	70-130	13	35	mg/kg	07.09.19 09:13	
Toluene	<0.000454	0.0996	0.0955	96	0.104	104	70-130	9	35	mg/kg	07.09.19 09:13	
Ethylbenzene	<0.00199	0.0996	0.109	109	0.116	116	70-130	6	35	mg/kg	07.09.19 09:13	
m,p-Xylenes	<0.00101	0.199	0.215	108	0.229	114	70-130	6	35	mg/kg	07.09.19 09:13	
o-Xylene	0.000750	0.0996	0.102	102	0.109	109	70-130	7	35	mg/kg	07.09.19 09:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		87		90		70-130	%	07.09.19 09:13
4-Bromofluorobenzene	101		108		104		70-130	%	07.09.19 09:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094951

Parent Sample Id: 629639-021

Matrix: Soil

MS Sample Id: 629639-021 S

Prep Method: SW5030B

Date Prep: 07.08.19

MSD Sample Id: 629639-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0791	78	0.0789	79	70-130	0	35	mg/kg	07.09.19 09:59	
Toluene	<0.000458	0.101	0.0828	82	0.0829	83	70-130	0	35	mg/kg	07.09.19 09:59	
Ethylbenzene	<0.00201	0.101	0.0812	80	0.0864	87	70-130	6	35	mg/kg	07.09.19 09:59	
m,p-Xylenes	<0.00102	0.201	0.143	71	0.149	75	70-130	4	35	mg/kg	07.09.19 09:59	
o-Xylene	<0.000346	0.101	0.0802	79	0.0826	83	70-130	3	35	mg/kg	07.09.19 09:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		92		70-130	%	07.09.19 09:59
4-Bromofluorobenzene	112		114		70-130	%	07.09.19 09:59

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

429453

Page 1 of 0[illegible]

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

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

1029653

Page

3 of 5

Client Name:

EOG

Site Manager:

Clain Gonzales

Project Name:

Neptune 10 State CTR

Project Location:

Lea CO, NM

Project #:

212C-MD-01816

Invoice to:

EOG - James Kennedy & Todd Wells

Receiving Laboratory:

Xanco

Sampler Signature:

Tony Leganday

Comments:

Run deeper samples if benzene exceeds 10 mg/kg or BTEX exceeds 50 mg/kg or if TPH exceeds 100 mg/kg

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

AH 4 (3-3.5')

DATE

TIME

WATER

SOIL

HCL

HNO₃

ICE

None

CONTAINERS

1

FILTERED (Y/N)

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

Inquired by:

Matthew S. Anderson

Date: 7/1/19

Time: 1300

Received by:

7/1/19

Date: 7/1/19

Time: 13:00

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Inquired by:

Matthew S. Anderson

Date: 7/1/19

Time: 1300

Received by:

7/1/19

Date: 7/1/19

Time: 13:00

LAB USE ONLY

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Chain Gonzales

Project Name:

Neptune 10 State CTR

Project Location:

Lea CO, NM

Project #:

212C-MD-01816

Invoice to:

EOG - James Kennedy & Todd Wells

Receiving Laboratory:

Xanco

Comments:

 Ran deeper samples if benzene exceeds 10mg/kg or BTEX
 exceeds 50mg/kg or if TPH exceeds 100mg/kg

Sampler Signature:

Tony Legonda

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

AH7 (4-4.5')

AH8 (0-1')

AH8 (1-1.5')

AH9 (0-1')

AH9 (1-1.5')

AH9 (2-2.5')

AH9 (3-3.5')

AH9 (4-4.5')

AH9 (5-5.5')

SAMPLING

YEAR: 2019

DATE

TIME

MATRIX

WATER
SOILPRESERVATIVE
METHODHCL
HNO₃
ICE
None

CONTAINERS

1

FILTERED (Y/N)

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.)

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

STANDARD

Sample Temperature

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

40C

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

IOS Number **42634**

Date/Time: 07/01/19 16:01

Created by: Martha Castro

Please send report to: Kelsey Brooks

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775613045113

E-Mail: kelsey.brooks@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
629653-001	S	AH 1 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35 ↓	
629653-001	S	AH 1 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-001	S	AH 1 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-002	S	AH 1 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35 ↓	
629653-002	S	AH 1 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-002	S	AH 1 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-003	S	AH 1 (2-2.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-004	S	AH 1 (3-3.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-005	S	AH 1 (4-4.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-006	S	AH 1 (5-5.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-007	S	AH 2 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-007	S	AH 2 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-007	S	AH 2 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35 ↓	
629653-008	S	AH 2 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35 ↓	
629653-008	S	AH 2 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-008	S	AH 2 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-009	S	AH 2 (2-2.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-010	S	AH 2 (3-3.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-011	S	AH 2 (4-4.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-012	S	AH 3 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-012	S	AH 3 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-012	S	AH 3 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35 ↓	
629653-013	S	AH 3 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-013	S	AH 3 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-013	S	AH 3 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35 ↓	

Inter-Office Shipment

IOS Number **42634**

Date/Time: 07/01/19 16:01

Created by: Martha Castro

Please send report to: Kelsey Brooks

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775613045113

E-Mail: kelsey.brooks@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
629653-014	S	AH 3 (2-2.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-015	S	AH3 (3-3.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-016	S	AH3 (4-4.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-017	S	AH3 (5-5.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-018	S	AH4 (0-1)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-018	S	AH4 (0-1)	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-018	S	AH4 (0-1)	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-019	S	AH4 (1-1.5)	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-019	S	AH4 (1-1.5)	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-019	S	AH4 (1-1.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-020	S	AH4 (2-2.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-021	S	AH4 (3-3.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-022	S	AH4 (4-4.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-023	S	AH5 (0-1)	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-023	S	AH5 (0-1)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-023	S	AH5 (0-1)	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-024	S	AH5 (1-1.5)	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-024	S	AH5 (1-1.5)	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-024	S	AH5 (1-1.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-025	S	AH5 (2-2.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-026	S	AH5 (3-3.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-027	S	AH5 (4-4.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-028	S	AH5 (5-5.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-029	S	AH5 (6-6.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-030	S	AH5 (7-7.5)	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	

Inter Office Shipment or Sample Comments:

IOS Number **42634**

Date/Time: 07/01/19 16:01

Created by: Martha Castro

Please send report to: Kelsey Brooks

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775613045113

E-Mail: kelsey.brooks@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
629653-031	S	AH6 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-031	S	AH6 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-031	S	AH6 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-032	S	AH6 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-032	S	AH6 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-032	S	AH6 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-033	S	AH6 (2-2.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-034	S	AH6 (3-3.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-035	S	AH6 (4-4.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-036	S	AH6 (5-5.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-037	S	AH7 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-037	S	AH7 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-037	S	AH7 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-038	S	AH7 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-038	S	AH7 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-038	S	AH7 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-039	S	AH7 (2-2.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-040	S	AH7 (3-3.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-041	S	AH7 (4-4.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-042	S	AH8 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-042	S	AH8 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-042	S	AH8 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-043	S	AH8 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-043	S	AH8 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-043	S	AH8 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	

Inter Office Shipment or Sample Comments:

Relinquished By:

Received By:

Released to Imaging: 5/18/2022 9:13:43 AM



Inter-Office Shipment

Page 4 of 4

IOS Number **42634**

Date/Time: 07/01/19 16:01

Created by: Martha Castro

Please send report to: Kelsey Brooks

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.: 775613045113

E-Mail: kelsey.brooks@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
629653-044	S	AH9 (0-1')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-044	S	AH9 (0-1')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-044	S	AH9 (0-1')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-045	S	AH9 (1-1.5')	06/27/19 00:00	SW8015MOD_NM	TPH By SW8015 Mod	07/08/19	07/11/19	KEB	PHCC10C28 PHCC28C35	
629653-045	S	AH9 (1-1.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-045	S	AH9 (1-1.5')	06/27/19 00:00	SW8021B	BTEX by EPA 8021B	07/08/19	07/11/19	KEB	BR4FBZ BZ BZME EBZ X	
629653-046	S	AH9 (2-2.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-047	S	AH9 (3-3.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-048	S	AH9 (4-4.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	
629653-049	S	AH9 (5-5.5')	06/27/19 00:00	E300_CL	Chloride by EPA 300	07/08/19	12/24/19	KEB	CL	

Inter Office Shipment or Sample Comments:

Date Relinquished:

Martha Castro

07/01/2019

Date Received:

Cooler Temperature:

Brianna Teel

07/02/2019 12:14

0.6



Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 42634

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sent By: Martha Castro

Date Sent: 07/01/2019 04:01 PM

Received By: Brianna Teel

Date Received: 07/02/2019 12:14 PM

Sample Receipt Checklist

Comments

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

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 07/02/2019



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-2942-1

Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: EOG-Neptune 10 State CTB

For:

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

Attn: Clair Gonzales

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

Authorized for release by:
6/14/2021 4:00:35 PM

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

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results through

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www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Laboratory Job ID: 880-2942-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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
SQL	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-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

Job ID: 880-2942-1

Laboratory: Eurofins Xenco, Midland**Narrative**

**Job Narrative
880-2942-1****Receipt**

The samples were received on 6/10/2021 12:09 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 5.3°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-2942-1

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/10/21 13:13	06/11/21 03:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/10/21 13:13	06/11/21 03:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/10/21 13:13	06/11/21 03:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/10/21 13:13	06/11/21 03:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/10/21 13:13	06/11/21 03:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/10/21 13:13	06/11/21 03:43	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		06/10/21 13:13	06/11/21 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/10/21 13:13	06/11/21 03:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/10/21 13:13	06/11/21 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 15:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 15:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 15:30	1
Total TPH	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 15:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	06/10/21 14:35	06/11/21 15:30	1
o-Terphenyl	93		70 - 130	06/10/21 14:35	06/11/21 15:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		4.98		mg/Kg			06/11/21 16:59	1

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

Lab Sample ID: 880-2942-2

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/10/21 13:13	06/11/21 04:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/10/21 13:13	06/11/21 04:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/10/21 13:13	06/11/21 04:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/10/21 13:13	06/11/21 04:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/10/21 13:13	06/11/21 04:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/10/21 13:13	06/11/21 04:03	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		06/10/21 13:13	06/11/21 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/10/21 13:13	06/11/21 04:03	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/10/21 13:13	06/11/21 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-2942-2

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:16	1
Total TPH	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				06/10/21 14:35	06/11/21 17:16	1
o-Terphenyl	93		70 - 130				06/10/21 14:35	06/11/21 17:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.3		5.02		mg/Kg			06/11/21 17:14	1

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

Lab Sample ID: 880-2942-3

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		5.05		mg/Kg			06/11/21 17:19	1

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

Lab Sample ID: 880-2942-4

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.3		5.00		mg/Kg			06/11/21 17:24	1

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

Lab Sample ID: 880-2942-5

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/10/21 13:13	06/11/21 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				06/10/21 13:13	06/11/21 04:24	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/10/21 13:13	06/11/21 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/21 14:35	06/11/21 17:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/21 14:35	06/11/21 17:37	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-2942-5

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 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		06/10/21 14:35	06/11/21 17:37	1
Total TPH	<50.0	U	50.0		mg/Kg		06/10/21 14:35	06/11/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				06/10/21 14:35	06/11/21 17:37	1
o-Terphenyl	100		70 - 130				06/10/21 14:35	06/11/21 17:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	103		4.98		mg/Kg			06/11/21 17:28	1

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

Lab Sample ID: 880-2942-6

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		06/10/21 13:13	06/11/21 04:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				06/10/21 13:13	06/11/21 04:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/10/21 13:13	06/11/21 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:58	1
Total TPH	<49.8	U	49.8		mg/Kg		06/10/21 14:35	06/11/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				06/10/21 14:35	06/11/21 17:58	1
o-Terphenyl	89		70 - 130				06/10/21 14:35	06/11/21 17:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.9		4.97		mg/Kg			06/11/21 17:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

Client Sample ID: Composite 2 (2'-2.5')
Date Collected: 06/02/21 00:00
Date Received: 06/10/21 12:09

Lab Sample ID: 880-2942-7
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		5.04		mg/Kg			06/11/21 17:38	1

Client Sample ID: Composite 2 (3'-3.5')
Date Collected: 06/02/21 00:00
Date Received: 06/10/21 12:09

Lab Sample ID: 880-2942-8
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.11		5.02		mg/Kg			06/11/21 17:43	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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)
880-2942-1	Composite 1 (0'-1')	106	103
880-2942-1 MS	Composite 1 (0'-1')	118	103
880-2942-2	Composite 1 (1'-1.5')	93	97
880-2942-5	Composite 2 (0'-1')	100	98
880-2942-6	Composite 2 (1'-1.5')	94	99
LCS 880-3959/1-A	Lab Control Sample	107	107
LCS 880-3976/1-A	Lab Control Sample	117	104
LCSD 880-3959/2-A	Lab Control Sample Dup	109	107
LCSD 880-3976/2-A	Lab Control Sample Dup	51 S1-	104
MB 880-3959/5-A	Method Blank	98	95
MB 880-3976/5-A	Method Blank	97	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-2942-1	Composite 1 (0'-1')	90	93
880-2942-1 MS	Composite 1 (0'-1')	96	85
880-2942-1 MSD	Composite 1 (0'-1')	96	88
880-2942-2	Composite 1 (1'-1.5')	92	93
880-2942-5	Composite 2 (0'-1')	104	100
880-2942-6	Composite 2 (1'-1.5')	90	89
LCS 880-3991/2-A	Lab Control Sample	84	79
LCSD 880-3991/3-A	Lab Control Sample Dup	83	79
MB 880-3991/1-A	Method Blank	83	85
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-3959/5-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3959

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:00	06/10/21 16:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:00	06/10/21 16:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:00	06/10/21 16:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/21 13:00	06/10/21 16:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:00	06/10/21 16:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/21 13:00	06/10/21 16:30	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/10/21 13:00	06/10/21 16:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/10/21 13:00	06/10/21 16:30	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/10/21 13:00	06/10/21 16:30	1

Lab Sample ID: LCS 880-3959/1-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3959

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1010		mg/Kg		101	70 - 130
Toluene	0.100	0.09317		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09238		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1973		mg/Kg		99	70 - 130
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130

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

Lab Sample ID: LCSD 880-3959/2-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3959

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1037		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.09638		mg/Kg		96	70 - 130	3	35
Ethylbenzene	0.100	0.09624		mg/Kg		96	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2072		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-3976/5-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 03:22	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-3976/5-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 03:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 03:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/21 13:13	06/11/21 03:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/21 13:13	06/11/21 03:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/21 13:13	06/11/21 03:22	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		06/10/21 13:13	06/11/21 03:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/10/21 13:13	06/11/21 03:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/10/21 13:13	06/11/21 03:22	1

Lab Sample ID: LCS 880-3976/1-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09766		mg/Kg		98	70 - 130
Toluene	0.100	0.09459		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09748		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2091		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-3976/2-A

Matrix: Solid

Analysis Batch: 3978

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	7	35
Toluene	0.100	0.09981		mg/Kg		100	70 - 130	5	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2251		mg/Kg		113	70 - 130	7	35
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-2942-1 MS

Matrix: Solid

Analysis Batch: 3978

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

Prep Type: Total/NA

Prep Batch: 3976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0996	0.08617		mg/Kg		87	70 - 130
Toluene	<0.00199	U	0.0996	0.08465		mg/Kg		85	70 - 130

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-2942-1 MS

Matrix: Solid

Analysis Batch: 3978

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

Prep Type: Total/NA

Prep Batch: 3976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.0996	0.08608		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1845		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09416		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-3991/1-A

Matrix: Solid

Analysis Batch: 4009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3991

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		06/10/21 14:35	06/11/21 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/21 14:35	06/11/21 14:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/21 14:35	06/11/21 14:28	1
Total TPH	<50.0	U	50.0		mg/Kg		06/10/21 14:35	06/11/21 14:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	06/10/21 14:35	06/11/21 14:28	1
o-Terphenyl	85		70 - 130	06/10/21 14:35	06/11/21 14:28	1

Lab Sample ID: LCS 880-3991/2-A

Matrix: Solid

Analysis Batch: 4009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	850.7		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1043		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-3991/3-A

Matrix: Solid

Analysis Batch: 4009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3991

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	773.4		mg/Kg		77	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	881.8		mg/Kg		88	70 - 130	17	20

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-3991/3-A

Matrix: Solid

Analysis Batch: 4009

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3991

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 880-2942-1 MS

Matrix: Solid

Analysis Batch: 4009

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

Prep Type: Total/NA

Prep Batch: 3991

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	897.6		mg/Kg		90	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1085		mg/Kg		109	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	96		70 - 130							
o-Terphenyl	85		70 - 130							

Lab Sample ID: 880-2942-1 MSD

Matrix: Solid

Analysis Batch: 4009

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

Prep Type: Total/NA

Prep Batch: 3991

	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	<49.8	U	998	979.0		mg/Kg		98	70 - 130	9	20	
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1113		mg/Kg		112	70 - 130	3	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	96		70 - 130									
o-Terphenyl	88		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-3979/1-A

Matrix: Solid

Analysis Batch: 4013

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			06/11/21 15:16	1	

Lab Sample ID: LCS 880-3979/2-A

Matrix: Solid

Analysis Batch: 4013

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	245.0		mg/Kg		98	90 - 110			

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-3979/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 4013											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit		
Chloride	250	245.5		mg/Kg		98	90 - 110	0	20		

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 3959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-3959/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3959/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3959/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 3976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2942-1	Composite 1 (0'-1')	Total/NA	Solid	5035	
880-2942-2	Composite 1 (1'-1.5')	Total/NA	Solid	5035	
880-2942-5	Composite 2 (0'-1')	Total/NA	Solid	5035	
880-2942-6	Composite 2 (1'-1.5')	Total/NA	Solid	5035	
MB 880-3976/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-3976/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-3976/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-2942-1 MS	Composite 1 (0'-1')	Total/NA	Solid	5035	

Analysis Batch: 3978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2942-1	Composite 1 (0'-1')	Total/NA	Solid	8021B	3976
880-2942-2	Composite 1 (1'-1.5')	Total/NA	Solid	8021B	3976
880-2942-5	Composite 2 (0'-1')	Total/NA	Solid	8021B	3976
880-2942-6	Composite 2 (1'-1.5')	Total/NA	Solid	8021B	3976
MB 880-3959/5-A	Method Blank	Total/NA	Solid	8021B	3959
MB 880-3976/5-A	Method Blank	Total/NA	Solid	8021B	3976
LCS 880-3959/1-A	Lab Control Sample	Total/NA	Solid	8021B	3959
LCS 880-3976/1-A	Lab Control Sample	Total/NA	Solid	8021B	3976
LCSD 880-3959/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3959
LCSD 880-3976/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	3976
880-2942-1 MS	Composite 1 (0'-1')	Total/NA	Solid	8021B	3976

GC Semi VOA

Prep Batch: 3991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2942-1	Composite 1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2942-2	Composite 1 (1'-1.5')	Total/NA	Solid	8015NM Prep	
880-2942-5	Composite 2 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2942-6	Composite 2 (1'-1.5')	Total/NA	Solid	8015NM Prep	
MB 880-3991/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-3991/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-3991/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-2942-1 MS	Composite 1 (0'-1')	Total/NA	Solid	8015NM Prep	
880-2942-1 MSD	Composite 1 (0'-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 4009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2942-1	Composite 1 (0'-1')	Total/NA	Solid	8015B NM	3991
880-2942-2	Composite 1 (1'-1.5')	Total/NA	Solid	8015B NM	3991
880-2942-5	Composite 2 (0'-1')	Total/NA	Solid	8015B NM	3991
880-2942-6	Composite 2 (1'-1.5')	Total/NA	Solid	8015B NM	3991
MB 880-3991/1-A	Method Blank	Total/NA	Solid	8015B NM	3991
LCS 880-3991/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	3991

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 4009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-3991/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	3991
880-2942-1 MS	Composite 1 (0'-1')	Total/NA	Solid	8015B NM	3991
880-2942-1 MSD	Composite 1 (0'-1')	Total/NA	Solid	8015B NM	3991

HPLC/IC

Leach Batch: 3979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2942-1	Composite 1 (0'-1')	Soluble	Solid	DI Leach	
880-2942-2	Composite 1 (1'-1.5')	Soluble	Solid	DI Leach	
880-2942-3	Composite 1 (2'-2.5')	Soluble	Solid	DI Leach	
880-2942-4	Composite 1 (3'-3.5')	Soluble	Solid	DI Leach	
880-2942-5	Composite 2 (0'-1')	Soluble	Solid	DI Leach	
880-2942-6	Composite 2 (1'-1.5')	Soluble	Solid	DI Leach	
880-2942-7	Composite 2 (2'-2.5')	Soluble	Solid	DI Leach	
880-2942-8	Composite 2 (3'-3.5')	Soluble	Solid	DI Leach	
MB 880-3979/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-3979/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-3979/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 4013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-2942-1	Composite 1 (0'-1')	Soluble	Solid	300.0	3979
880-2942-2	Composite 1 (1'-1.5')	Soluble	Solid	300.0	3979
880-2942-3	Composite 1 (2'-2.5')	Soluble	Solid	300.0	3979
880-2942-4	Composite 1 (3'-3.5')	Soluble	Solid	300.0	3979
880-2942-5	Composite 2 (0'-1')	Soluble	Solid	300.0	3979
880-2942-6	Composite 2 (1'-1.5')	Soluble	Solid	300.0	3979
880-2942-7	Composite 2 (2'-2.5')	Soluble	Solid	300.0	3979
880-2942-8	Composite 2 (3'-3.5')	Soluble	Solid	300.0	3979
MB 880-3979/1-A	Method Blank	Soluble	Solid	300.0	3979
LCS 880-3979/2-A	Lab Control Sample	Soluble	Solid	300.0	3979
LCSD 880-3979/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3979

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-2942-1

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	3976	06/10/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3978	06/11/21 03:43	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3991	06/10/21 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4009	06/11/21 15:30	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 16:59	CH	XEN MID

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

Lab Sample ID: 880-2942-2

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	3976	06/10/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3978	06/11/21 04:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	3991	06/10/21 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4009	06/11/21 17:16	AM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:14	CH	XEN MID

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

Lab Sample ID: 880-2942-3

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:19	CH	XEN MID

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

Lab Sample ID: 880-2942-4

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.00 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:24	CH	XEN MID

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

Lab Sample ID: 880-2942-5

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	3976	06/10/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3978	06/11/21 04:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	3991	06/10/21 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4009	06/11/21 17:37	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:28	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-2942-6

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	3976	06/10/21 13:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	3978	06/11/21 04:44	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	3991	06/10/21 14:35	DM	XEN MID
Total/NA	Analysis	8015B NM		1			4009	06/11/21 17:58	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:33	CH	XEN MID

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

Lab Sample ID: 880-2942-7

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:38	CH	XEN MID

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

Lab Sample ID: 880-2942-8

Date Collected: 06/02/21 00:00

Matrix: Solid

Date Received: 06/10/21 12:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	3979	06/10/21 13:30	SC	XEN MID
Soluble	Analysis	300.0		1			4013	06/11/21 17:43	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Tetra Tech, Inc.
Project/Site: EOG-Neptune 10 State CTB

Job ID: 880-2942-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Tetra Tech, Inc.

Job ID: 880-2942-1

Project/Site: EOG-Neptune 10 State CTB

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
880-2942-1	Composite 1 (0'-1')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-2	Composite 1 (1'-1.5')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-3	Composite 1 (2'-2.5')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-4	Composite 1 (3'-3.5')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-5	Composite 2 (0'-1')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-6	Composite 2 (1'-1.5')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-7	Composite 2 (2'-2.5')	Solid	06/02/21 00:00	06/10/21 12:09	
880-2942-8	Composite 2 (3'-3.5')	Solid	06/02/21 00:00	06/10/21 12:09	

Eurofins Xenco, Midland

Tetra Tech, Inc.

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

880-2942 Chain of Custody

886-2942

Page 1 of 1

6/14/2021

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-2942-1

SDG Number: Lea County, New Mexico

Login Number: 2942

List Number: 1

Creator: Phillips, Kerianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1361-1

Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: Neptune

For:

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

Attn: Clair Gonzales

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

Authorized for release by:
10/13/2021 4:29:56 PM

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

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

Client: Tetra Tech, Inc.
Project/Site: Neptune

Laboratory Job ID: 890-1361-1
SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Job ID: 890-1361-1**Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative
890-1361-1****Receipt**

The samples were received on 10/5/2021 10:28 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9107 and analytical batch 880-9282 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: H-3 0-.5' (890-1361-3), AH-1 0-1' (890-1361-5), AH-1 2-2.5' (890-1361-7), AH-1 3-3.5' (890-1361-8), AH-2 0-1' (890-1361-10), AH-2 1-1.5' (890-1361-11), AH-2 2-2.5' (890-1361-12), AH-2 3-3.5' (890-1361-13), AH-2 4-4.5' (890-1361-14) and AH-3 0-1' (890-1361-15). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: H-1 0-.5'

Lab Sample ID: 890-1361-1

Date Collected: 09/29/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 00:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 00:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 00:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/21 10:24	10/13/21 00:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 00:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/21 10:24	10/13/21 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	10/11/21 10:24	10/13/21 00:49	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/11/21 10:24	10/13/21 00:49	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 11:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 11:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 11:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/11/21 13:54	10/12/21 11:17	1
o-Terphenyl	109		70 - 130	10/11/21 13:54	10/12/21 11:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		4.97		mg/Kg			10/12/21 19:22	1

Client Sample ID: H-2 0-.5'

Lab Sample ID: 890-1361-2

Date Collected: 09/29/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/21 10:24	10/13/21 01:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/21 10:24	10/13/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/11/21 10:24	10/13/21 01:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: H-2 0-.5'

Lab Sample ID: 890-1361-2

Date Collected: 09/29/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	10/11/21 10:24	10/13/21 01:10	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 12:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 12:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				10/11/21 13:54	10/12/21 12:22	1
o-Terphenyl	118		70 - 130				10/11/21 13:54	10/12/21 12:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.0		4.95		mg/Kg			10/12/21 19:28	1

Client Sample ID: H-3 0-.5'

Lab Sample ID: 890-1361-3

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		10/11/21 10:24	10/13/21 01:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/11/21 10:24	10/13/21 01:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/11/21 10:24	10/13/21 01:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/11/21 10:24	10/13/21 01:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/11/21 10:24	10/13/21 01:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/11/21 10:24	10/13/21 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/11/21 10:24	10/13/21 01:30	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/11/21 10:24	10/13/21 01:30	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: H-3 0-.5'

Lab Sample ID: 890-1361-3

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 12:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 12:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				10/11/21 13:54	10/12/21 12:44	1
o-Terphenyl	105		70 - 130				10/11/21 13:54	10/12/21 12:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.63		5.00		mg/Kg			10/12/21 19:33	1

Client Sample ID: H-4 0-.5'

Lab Sample ID: 890-1361-4

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/21 10:24	10/13/21 01:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 01:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/21 10:24	10/13/21 01:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				10/11/21 10:24	10/13/21 01:50	1
1,4-Difluorobenzene (Surr)	75		70 - 130				10/11/21 10:24	10/13/21 01:50	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 13:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 13:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/11/21 13:54	10/12/21 13:06	1
o-Terphenyl	118		70 - 130				10/11/21 13:54	10/12/21 13:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: H-4 0-.5'

Lab Sample ID: 890-1361-4

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.7		4.98		mg/Kg			10/12/21 19:39	1

Client Sample ID: AH-1 0-1'

Lab Sample ID: 890-1361-5

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 02:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 02:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				10/11/21 10:24	10/13/21 02:11	1
1,4-Difluorobenzene (Surr)	79		70 - 130				10/11/21 10:24	10/13/21 02:11	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 13:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 13:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/11/21 13:54	10/12/21 13:28	1
o-Terphenyl	113		70 - 130				10/11/21 13:54	10/12/21 13:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.04		mg/Kg			10/12/21 19:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-1 1-1.5'

Lab Sample ID: 890-1361-6

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 02:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 02:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	10/11/21 10:24	10/13/21 02:31	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/11/21 10:24	10/13/21 02:31	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	10/11/21 13:54	10/12/21 13:50	1
o-Terphenyl	122		70 - 130	10/11/21 13:54	10/12/21 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		5.05		mg/Kg			10/12/21 20:01	1

Client Sample ID: AH-1 2-2.5'

Lab Sample ID: 890-1361-7

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 2 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 02:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/21 10:24	10/13/21 02:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 02:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/21 10:24	10/13/21 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	10/11/21 10:24	10/13/21 02:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-1 2-2.5'

Lab Sample ID: 890-1361-7

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 2 - 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	79		70 - 130	10/11/21 10:24	10/13/21 02:52	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 14:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 14:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				10/11/21 13:54	10/12/21 14:12	1
o-Terphenyl	118		70 - 130				10/11/21 13:54	10/12/21 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		4.99		mg/Kg			10/12/21 20:18	1

Client Sample ID: AH-1 3-3.5'

Lab Sample ID: 890-1361-8

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 3 - 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 03:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 03:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 03:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/21 10:24	10/13/21 03:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 03:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/21 10:24	10/13/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	10/11/21 10:24	10/13/21 03:12	1
1,4-Difluorobenzene (Surr)	77		70 - 130	10/11/21 10:24	10/13/21 03:12	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-1 3-3.5'

Lab Sample ID: 890-1361-8

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 3 - 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 14:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 14:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/11/21 13:54	10/12/21 14:34	1
o-Terphenyl	118		70 - 130				10/11/21 13:54	10/12/21 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.2		4.95		mg/Kg			10/12/21 20:24	1

Client Sample ID: AH-1 4-4.5'

Lab Sample ID: 890-1361-9

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 4 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 03:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 03:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 03:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/11/21 10:24	10/13/21 03:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 03:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/11/21 10:24	10/13/21 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				10/11/21 10:24	10/13/21 03:32	1
1,4-Difluorobenzene (Surr)	73		70 - 130				10/11/21 10:24	10/13/21 03:32	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 14:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 14:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/11/21 13:54	10/12/21 14:57	1
o-Terphenyl	114		70 - 130				10/11/21 13:54	10/12/21 14:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-1 4-4.5'

Lab Sample ID: 890-1361-9

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 4 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		4.97		mg/Kg			10/12/21 20:29	1

Client Sample ID: AH-2 0-1'

Lab Sample ID: 890-1361-10

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 04:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 04:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 04:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/11/21 10:24	10/13/21 04:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 04:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/11/21 10:24	10/13/21 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				10/11/21 10:24	10/13/21 04:54	1
1,4-Difluorobenzene (Surr)	76		70 - 130				10/11/21 10:24	10/13/21 04:54	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 15:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 15:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/11/21 13:54	10/12/21 15:19	1
o-Terphenyl	114		70 - 130				10/11/21 13:54	10/12/21 15:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.98		mg/Kg			10/12/21 20:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-2 1-1.5'

Lab Sample ID: 890-1361-11

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 05:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 05:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 05:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 05:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 05:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	10/11/21 10:24	10/13/21 05:15	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	10/11/21 10:24	10/13/21 05:15	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 16:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 16:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 16:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	10/11/21 13:54	10/12/21 16:03	1
o-Terphenyl	116		70 - 130	10/11/21 13:54	10/12/21 16:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		4.99		mg/Kg			10/12/21 20:40	1

Client Sample ID: AH-2 2-2.5'

Lab Sample ID: 890-1361-12

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 2 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/21 10:24	10/13/21 05:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/21 10:24	10/13/21 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	10/11/21 10:24	10/13/21 05:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-2 2-2.5'

Lab Sample ID: 890-1361-12

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 2 - 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	10/11/21 10:24	10/13/21 05:35	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 16:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 16:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				10/11/21 13:54	10/12/21 16:25	1
o-Terphenyl	120		70 - 130				10/11/21 13:54	10/12/21 16:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		5.00		mg/Kg			10/12/21 20:46	1

Client Sample ID: AH-2 3-3.5'

Lab Sample ID: 890-1361-13

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 3 - 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/11/21 10:24	10/13/21 05:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/11/21 10:24	10/13/21 05:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/11/21 10:24	10/13/21 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	10/11/21 10:24	10/13/21 05:56	1
1,4-Difluorobenzene (Surr)	75		70 - 130	10/11/21 10:24	10/13/21 05:56	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-2 3-3.5'

Lab Sample ID: 890-1361-13

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 3 - 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 16:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/11/21 13:54	10/12/21 16:47	1
o-Terphenyl	112		70 - 130				10/11/21 13:54	10/12/21 16:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	224		5.00		mg/Kg			10/12/21 20:52	1

Client Sample ID: AH-2 4-4.5'

Lab Sample ID: 890-1361-14

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 4 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/21 10:24	10/13/21 06:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/21 10:24	10/13/21 06:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				10/11/21 10:24	10/13/21 06:16	1
1,4-Difluorobenzene (Surr)	73		70 - 130				10/11/21 10:24	10/13/21 06:16	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 17:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 17:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				10/11/21 13:54	10/12/21 17:09	1
o-Terphenyl	115		70 - 130				10/11/21 13:54	10/12/21 17:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-2 4-4.5'

Lab Sample ID: 890-1361-14

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 4 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		5.05		mg/Kg			10/12/21 21:37	1

Client Sample ID: AH-3 0-1'

Lab Sample ID: 890-1361-15

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/11/21 10:24	10/13/21 06:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 06:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/11/21 10:24	10/13/21 06:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				10/11/21 10:24	10/13/21 06:37	1
1,4-Difluorobenzene (Surr)	77		70 - 130				10/11/21 10:24	10/13/21 06:37	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				10/11/21 13:54	10/12/21 17:31	1
o-Terphenyl	124		70 - 130				10/11/21 13:54	10/12/21 17:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.19		4.99		mg/Kg			10/12/21 21:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-3 1-1.5'

Lab Sample ID: 890-1361-16

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 06:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 06:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 06:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 06:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/11/21 10:24	10/13/21 06:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/11/21 10:24	10/13/21 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/11/21 10:24	10/13/21 06:57	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/11/21 10:24	10/13/21 06:57	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 17:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 17:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/11/21 13:54	10/12/21 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	10/11/21 13:54	10/12/21 17:53	1
o-Terphenyl	110		70 - 130	10/11/21 13:54	10/12/21 17:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		4.98		mg/Kg			10/12/21 21:59	1

Client Sample ID: AH-3 2-2.5'

Lab Sample ID: 890-1361-17

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 2 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 07:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 07:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 07:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/11/21 10:24	10/13/21 07:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 07:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/11/21 10:24	10/13/21 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/11/21 10:24	10/13/21 07:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-3 2-2.5'

Lab Sample ID: 890-1361-17

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 2 - 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	10/11/21 10:24	10/13/21 07:17	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 18:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 18:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				10/11/21 13:54	10/12/21 18:14	1
o-Terphenyl	121		70 - 130				10/11/21 13:54	10/12/21 18:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		5.00		mg/Kg			10/12/21 22:05	1

Client Sample ID: AH-3 3-3.5'

Lab Sample ID: 890-1361-18

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 3 - 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/11/21 10:24	10/13/21 07:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/11/21 10:24	10/13/21 07:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/11/21 10:24	10/13/21 07:38	1
1,4-Difluorobenzene (Surr)	71		70 - 130	10/11/21 10:24	10/13/21 07:38	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-3 3-3.5'

Lab Sample ID: 890-1361-18

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 3 - 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 18:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 18:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/11/21 13:54	10/12/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				10/11/21 13:54	10/12/21 18:36	1
o-Terphenyl	126		70 - 130				10/11/21 13:54	10/12/21 18:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2		4.95		mg/Kg			10/12/21 22:10	1

Client Sample ID: AH-3 4-4.5'

Lab Sample ID: 890-1361-19

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Sample Depth: 4 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/11/21 10:24	10/13/21 07:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/11/21 10:24	10/13/21 07:58	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/11/21 10:24	10/13/21 07:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				10/11/21 10:24	10/13/21 07:58	1
1,4-Difluorobenzene (Surr)	76		70 - 130				10/11/21 10:24	10/13/21 07:58	1

Method: 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			10/12/21 10:57	1

Method: 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			10/11/21 10:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 18:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 18:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				10/11/21 13:54	10/12/21 18:57	1
o-Terphenyl	117		70 - 130				10/11/21 13:54	10/12/21 18:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-3 4-4.5'
Date Collected: 10/04/21 00:00
Date Received: 10/05/21 10:28
Sample Depth: 4 - 4.5

Lab Sample ID: 890-1361-19
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		5.04		mg/Kg			10/12/21 22:27	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (70-130)	DFBZ1 (70-130)				
890-1361-1	H-1 0-.5'	121	79				
890-1361-2	H-2 0-.5'	105	89				
890-1361-3	H-3 0-.5'	134 S1+	78				
890-1361-4	H-4 0-.5'	127	75				
890-1361-5	AH-1 0-1'	142 S1+	79				
890-1361-6	AH-1 1-1.5'	116	79				
890-1361-7	AH-1 2-2.5'	132 S1+	79				
890-1361-8	AH-1 3-3.5'	142 S1+	77				
890-1361-9	AH-1 4-4.5'	130	73				
890-1361-10	AH-2 0-1'	132 S1+	76				
890-1361-11	AH-2 1-1.5'	131 S1+	69 S1-				
890-1361-12	AH-2 2-2.5'	140 S1+	74				
890-1361-13	AH-2 3-3.5'	134 S1+	75				
890-1361-14	AH-2 4-4.5'	135 S1+	73				
890-1361-15	AH-3 0-1'	154 S1+	77				
890-1361-16	AH-3 1-1.5'	107	79				
890-1361-17	AH-3 2-2.5'	126	83				
890-1361-18	AH-3 3-3.5'	126	71				
890-1361-19	AH-3 4-4.5'	126	76				
890-1384-A-61-A MS	Matrix Spike	118	94				
890-1384-A-61-B MSD	Matrix Spike Duplicate	116	83				
LCS 880-9107/1-A	Lab Control Sample	116	76				
LCSD 880-9107/2-A	Lab Control Sample Dup	118	89				
MB 880-8942/5-B	Method Blank	112	79				
MB 880-9107/5-A	Method Blank	113	76				

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		1CO1 (70-130)	OTPH1 (70-130)				
890-1361-1	H-1 0-.5'	104	109				
890-1361-1 MS	H-1 0-.5'	123	113				
890-1361-1 MSD	H-1 0-.5'	117	104				
890-1361-2	H-2 0-.5'	110	118				
890-1361-3	H-3 0-.5'	103	105				
890-1361-4	H-4 0-.5'	111	118				
890-1361-5	AH-1 0-1'	106	113				
890-1361-6	AH-1 1-1.5'	114	122				
890-1361-7	AH-1 2-2.5'	110	118				
890-1361-8	AH-1 3-3.5'	109	118				
890-1361-9	AH-1 4-4.5'	107	114				
890-1361-10	AH-2 0-1'	107	114				
890-1361-11	AH-2 1-1.5'	109	116				
890-1361-12	AH-2 2-2.5'	112	120				

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-1361-1

Project/Site: Neptune

SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1361-13	AH-2 3-3.5'	105	112
890-1361-14	AH-2 4-4.5'	107	115
890-1361-15	AH-3 0-1'	115	124
890-1361-16	AH-3 1-1.5'	104	110
890-1361-17	AH-3 2-2.5'	109	121
890-1361-18	AH-3 3-3.5'	115	126
890-1361-19	AH-3 4-4.5'	105	117
LCS 880-9217/2-A	Lab Control Sample	113	105
LCSD 880-9217/3-A	Lab Control Sample Dup	116	111
MB 880-9217/1-A	Method Blank	112	123

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8942/5-B

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 16:18	10/12/21 13:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 16:18	10/12/21 13:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 16:18	10/12/21 13:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/21 16:18	10/12/21 13:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 16:18	10/12/21 13:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/21 16:18	10/12/21 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	10/11/21 16:18	10/12/21 13:02	1
1,4-Difluorobenzene (Surr)	79		70 - 130	10/11/21 16:18	10/12/21 13:02	1

Lab Sample ID: MB 880-9107/5-A

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9107

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 00:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 00:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/11/21 10:24	10/13/21 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/11/21 10:24	10/13/21 00:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/11/21 10:24	10/13/21 00:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	10/11/21 10:24	10/13/21 00:07	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/11/21 10:24	10/13/21 00:07	1

Lab Sample ID: LCS 880-9107/1-A

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08696		mg/Kg		87	70 - 130
Toluene	0.100	0.09149		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.09658		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2006		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1008		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: LCSD 880-9107/2-A

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09585		mg/Kg		96	70 - 130	10	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-9107/2-A

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.09537		mg/Kg		95	70 - 130	4	35
Ethylbenzene	0.100	0.09761		mg/Kg		98	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2048		mg/Kg		102	70 - 130	2	35
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-1384-A-61-A MS

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9107

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.101	0.006995	F1	mg/Kg		7	70 - 130
Toluene	<0.00199	U F2 F1	0.101	0.003884	F1	mg/Kg		3	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.101	0.03125	F1	mg/Kg		31	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.09985	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.05300	F1	mg/Kg		53	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-1384-A-61-B MSD

Matrix: Solid

Analysis Batch: 9282

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9107

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.100	0.06467	F2 F1	mg/Kg		65	70 - 130	161	35
Toluene	<0.00199	U F2 F1	0.100	0.06437	F2 F1	mg/Kg		64	70 - 130	177	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06621	F2 F1	mg/Kg		66	70 - 130	72	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1420		mg/Kg		71	70 - 130	35	35
o-Xylene	<0.00199	U F1	0.100	0.07371		mg/Kg		74	70 - 130	33	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

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

Lab Sample ID: MB 880-9217/1-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9217

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		10/11/21 13:54	10/12/21 10:12	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-9217/1-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9217

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		10/11/21 13:54	10/12/21 10:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/11/21 13:54	10/12/21 10:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				10/11/21 13:54	10/12/21 10:12	1
o-Terphenyl	123		70 - 130				10/11/21 13:54	10/12/21 10:12	1

Lab Sample ID: LCS 880-9217/2-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1083		mg/Kg		108	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	113		70 - 130				
o-Terphenyl	105		70 - 130				

Lab Sample ID: LCSD 880-9217/3-A

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1181		mg/Kg		118	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1199		mg/Kg		120	70 - 130	10	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-1361-1 MS

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: H-1 0-.5'

Prep Type: Total/NA

Prep Batch: 9217

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	997	1146		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1053		mg/Kg		104	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	123		70 - 130						
o-Terphenyl	113		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

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

Lab Sample ID: 890-1361-1 MSD

Matrix: Solid

Analysis Batch: 9261

Client Sample ID: H-1 0-.5'

Prep Type: Total/NA

Prep Batch: 9217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1179		mg/Kg		118	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	994.5		mg/Kg		98	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	117		70 - 130								
o-Terphenyl	104		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9135/1-A

Matrix: Solid

Analysis Batch: 9314

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			10/12/21 18:03	1

Lab Sample ID: LCS 880-9135/2-A

Matrix: Solid

Analysis Batch: 9314

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-9135/3-A

Matrix: Solid

Analysis Batch: 9314

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	246.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1361-4 MS

Matrix: Solid

Analysis Batch: 9314

Client Sample ID: H-4 0-.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	14.7		249	276.2		mg/Kg		105	90 - 110

Lab Sample ID: 890-1361-4 MSD

Matrix: Solid

Analysis Batch: 9314

Client Sample ID: H-4 0-.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14.7		249	277.3		mg/Kg		105	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-9136/1-A

Matrix: Solid

Analysis Batch: 9315

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			10/12/21 21:20	1

Lab Sample ID: LCS 880-9136/2-A

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	247.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-9136/3-A

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.7		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-1361-14 MS

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: AH-2 4-4.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	154		253	409.9		mg/Kg		101	90 - 110

Lab Sample ID: 890-1361-14 MSD

Matrix: Solid

Analysis Batch: 9315

Client Sample ID: AH-2 4-4.5'

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	154		253	410.0		mg/Kg		101	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

GC VOA

Prep Batch: 8942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8942/5-B	Method Blank	Total/NA	Solid	5035	

Prep Batch: 9107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Total/NA	Solid	5035	
890-1361-2	H-2 0-.5'	Total/NA	Solid	5035	
890-1361-3	H-3 0-.5'	Total/NA	Solid	5035	
890-1361-4	H-4 0-.5'	Total/NA	Solid	5035	
890-1361-5	AH-1 0-1'	Total/NA	Solid	5035	
890-1361-6	AH-1 1-1.5'	Total/NA	Solid	5035	
890-1361-7	AH-1 2-2.5'	Total/NA	Solid	5035	
890-1361-8	AH-1 3-3.5'	Total/NA	Solid	5035	
890-1361-9	AH-1 4-4.5'	Total/NA	Solid	5035	
890-1361-10	AH-2 0-1'	Total/NA	Solid	5035	
890-1361-11	AH-2 1-1.5'	Total/NA	Solid	5035	
890-1361-12	AH-2 2-2.5'	Total/NA	Solid	5035	
890-1361-13	AH-2 3-3.5'	Total/NA	Solid	5035	
890-1361-14	AH-2 4-4.5'	Total/NA	Solid	5035	
890-1361-15	AH-3 0-1'	Total/NA	Solid	5035	
890-1361-16	AH-3 1-1.5'	Total/NA	Solid	5035	
890-1361-17	AH-3 2-2.5'	Total/NA	Solid	5035	
890-1361-18	AH-3 3-3.5'	Total/NA	Solid	5035	
890-1361-19	AH-3 4-4.5'	Total/NA	Solid	5035	
MB 880-9107/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9107/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9107/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1384-A-61-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1384-A-61-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 9282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Total/NA	Solid	8021B	9107
890-1361-2	H-2 0-.5'	Total/NA	Solid	8021B	9107
890-1361-3	H-3 0-.5'	Total/NA	Solid	8021B	9107
890-1361-4	H-4 0-.5'	Total/NA	Solid	8021B	9107
890-1361-5	AH-1 0-1'	Total/NA	Solid	8021B	9107
890-1361-6	AH-1 1-1.5'	Total/NA	Solid	8021B	9107
890-1361-7	AH-1 2-2.5'	Total/NA	Solid	8021B	9107
890-1361-8	AH-1 3-3.5'	Total/NA	Solid	8021B	9107
890-1361-9	AH-1 4-4.5'	Total/NA	Solid	8021B	9107
890-1361-10	AH-2 0-1'	Total/NA	Solid	8021B	9107
890-1361-11	AH-2 1-1.5'	Total/NA	Solid	8021B	9107
890-1361-12	AH-2 2-2.5'	Total/NA	Solid	8021B	9107
890-1361-13	AH-2 3-3.5'	Total/NA	Solid	8021B	9107
890-1361-14	AH-2 4-4.5'	Total/NA	Solid	8021B	9107
890-1361-15	AH-3 0-1'	Total/NA	Solid	8021B	9107
890-1361-16	AH-3 1-1.5'	Total/NA	Solid	8021B	9107
890-1361-17	AH-3 2-2.5'	Total/NA	Solid	8021B	9107
890-1361-18	AH-3 3-3.5'	Total/NA	Solid	8021B	9107
890-1361-19	AH-3 4-4.5'	Total/NA	Solid	8021B	9107
MB 880-8942/5-B	Method Blank	Total/NA	Solid	8021B	8942

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 9282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9107/5-A	Method Blank	Total/NA	Solid	8021B	9107
LCS 880-9107/1-A	Lab Control Sample	Total/NA	Solid	8021B	9107
LCSD 880-9107/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9107
890-1384-A-61-A MS	Matrix Spike	Total/NA	Solid	8021B	9107
890-1384-A-61-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9107

Analysis Batch: 9297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Total/NA	Solid	Total BTEX	
890-1361-2	H-2 0-.5'	Total/NA	Solid	Total BTEX	
890-1361-3	H-3 0-.5'	Total/NA	Solid	Total BTEX	
890-1361-4	H-4 0-.5'	Total/NA	Solid	Total BTEX	
890-1361-5	AH-1 0-1'	Total/NA	Solid	Total BTEX	
890-1361-6	AH-1 1-1.5'	Total/NA	Solid	Total BTEX	
890-1361-7	AH-1 2-2.5'	Total/NA	Solid	Total BTEX	
890-1361-8	AH-1 3-3.5'	Total/NA	Solid	Total BTEX	
890-1361-9	AH-1 4-4.5'	Total/NA	Solid	Total BTEX	
890-1361-10	AH-2 0-1'	Total/NA	Solid	Total BTEX	
890-1361-11	AH-2 1-1.5'	Total/NA	Solid	Total BTEX	
890-1361-12	AH-2 2-2.5'	Total/NA	Solid	Total BTEX	
890-1361-13	AH-2 3-3.5'	Total/NA	Solid	Total BTEX	
890-1361-14	AH-2 4-4.5'	Total/NA	Solid	Total BTEX	
890-1361-15	AH-3 0-1'	Total/NA	Solid	Total BTEX	
890-1361-16	AH-3 1-1.5'	Total/NA	Solid	Total BTEX	
890-1361-17	AH-3 2-2.5'	Total/NA	Solid	Total BTEX	
890-1361-18	AH-3 3-3.5'	Total/NA	Solid	Total BTEX	
890-1361-19	AH-3 4-4.5'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Total/NA	Solid	8015 NM	
890-1361-2	H-2 0-.5'	Total/NA	Solid	8015 NM	
890-1361-3	H-3 0-.5'	Total/NA	Solid	8015 NM	
890-1361-4	H-4 0-.5'	Total/NA	Solid	8015 NM	
890-1361-5	AH-1 0-1'	Total/NA	Solid	8015 NM	
890-1361-6	AH-1 1-1.5'	Total/NA	Solid	8015 NM	
890-1361-7	AH-1 2-2.5'	Total/NA	Solid	8015 NM	
890-1361-8	AH-1 3-3.5'	Total/NA	Solid	8015 NM	
890-1361-9	AH-1 4-4.5'	Total/NA	Solid	8015 NM	
890-1361-10	AH-2 0-1'	Total/NA	Solid	8015 NM	
890-1361-11	AH-2 1-1.5'	Total/NA	Solid	8015 NM	
890-1361-12	AH-2 2-2.5'	Total/NA	Solid	8015 NM	
890-1361-13	AH-2 3-3.5'	Total/NA	Solid	8015 NM	
890-1361-14	AH-2 4-4.5'	Total/NA	Solid	8015 NM	
890-1361-15	AH-3 0-1'	Total/NA	Solid	8015 NM	
890-1361-16	AH-3 1-1.5'	Total/NA	Solid	8015 NM	
890-1361-17	AH-3 2-2.5'	Total/NA	Solid	8015 NM	
890-1361-18	AH-3 3-3.5'	Total/NA	Solid	8015 NM	
890-1361-19	AH-3 4-4.5'	Total/NA	Solid	8015 NM	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

GC Semi VOA

Prep Batch: 9217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Total/NA	Solid	8015NM Prep	
890-1361-2	H-2 0-.5'	Total/NA	Solid	8015NM Prep	
890-1361-3	H-3 0-.5'	Total/NA	Solid	8015NM Prep	
890-1361-4	H-4 0-.5'	Total/NA	Solid	8015NM Prep	
890-1361-5	AH-1 0-1'	Total/NA	Solid	8015NM Prep	
890-1361-6	AH-1 1-1.5'	Total/NA	Solid	8015NM Prep	
890-1361-7	AH-1 2-2.5'	Total/NA	Solid	8015NM Prep	
890-1361-8	AH-1 3-3.5'	Total/NA	Solid	8015NM Prep	
890-1361-9	AH-1 4-4.5'	Total/NA	Solid	8015NM Prep	
890-1361-10	AH-2 0-1'	Total/NA	Solid	8015NM Prep	
890-1361-11	AH-2 1-1.5'	Total/NA	Solid	8015NM Prep	
890-1361-12	AH-2 2-2.5'	Total/NA	Solid	8015NM Prep	
890-1361-13	AH-2 3-3.5'	Total/NA	Solid	8015NM Prep	
890-1361-14	AH-2 4-4.5'	Total/NA	Solid	8015NM Prep	
890-1361-15	AH-3 0-1'	Total/NA	Solid	8015NM Prep	
890-1361-16	AH-3 1-1.5'	Total/NA	Solid	8015NM Prep	
890-1361-17	AH-3 2-2.5'	Total/NA	Solid	8015NM Prep	
890-1361-18	AH-3 3-3.5'	Total/NA	Solid	8015NM Prep	
890-1361-19	AH-3 4-4.5'	Total/NA	Solid	8015NM Prep	
MB 880-9217/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9217/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1361-1 MS	H-1 0-.5'	Total/NA	Solid	8015NM Prep	
890-1361-1 MSD	H-1 0-.5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Total/NA	Solid	8015B NM	9217
890-1361-2	H-2 0-.5'	Total/NA	Solid	8015B NM	9217
890-1361-3	H-3 0-.5'	Total/NA	Solid	8015B NM	9217
890-1361-4	H-4 0-.5'	Total/NA	Solid	8015B NM	9217
890-1361-5	AH-1 0-1'	Total/NA	Solid	8015B NM	9217
890-1361-6	AH-1 1-1.5'	Total/NA	Solid	8015B NM	9217
890-1361-7	AH-1 2-2.5'	Total/NA	Solid	8015B NM	9217
890-1361-8	AH-1 3-3.5'	Total/NA	Solid	8015B NM	9217
890-1361-9	AH-1 4-4.5'	Total/NA	Solid	8015B NM	9217
890-1361-10	AH-2 0-1'	Total/NA	Solid	8015B NM	9217
890-1361-11	AH-2 1-1.5'	Total/NA	Solid	8015B NM	9217
890-1361-12	AH-2 2-2.5'	Total/NA	Solid	8015B NM	9217
890-1361-13	AH-2 3-3.5'	Total/NA	Solid	8015B NM	9217
890-1361-14	AH-2 4-4.5'	Total/NA	Solid	8015B NM	9217
890-1361-15	AH-3 0-1'	Total/NA	Solid	8015B NM	9217
890-1361-16	AH-3 1-1.5'	Total/NA	Solid	8015B NM	9217
890-1361-17	AH-3 2-2.5'	Total/NA	Solid	8015B NM	9217
890-1361-18	AH-3 3-3.5'	Total/NA	Solid	8015B NM	9217
890-1361-19	AH-3 4-4.5'	Total/NA	Solid	8015B NM	9217
MB 880-9217/1-A	Method Blank	Total/NA	Solid	8015B NM	9217
LCS 880-9217/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9217
LCSD 880-9217/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9217
890-1361-1 MS	H-1 0-.5'	Total/NA	Solid	8015B NM	9217
890-1361-1 MSD	H-1 0-.5'	Total/NA	Solid	8015B NM	9217

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 9135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Soluble	Solid	DI Leach	
890-1361-2	H-2 0-.5'	Soluble	Solid	DI Leach	
890-1361-3	H-3 0-.5'	Soluble	Solid	DI Leach	
890-1361-4	H-4 0-.5'	Soluble	Solid	DI Leach	
890-1361-5	AH-1 0-1'	Soluble	Solid	DI Leach	
890-1361-6	AH-1 1-1.5'	Soluble	Solid	DI Leach	
890-1361-7	AH-1 2-2.5'	Soluble	Solid	DI Leach	
890-1361-8	AH-1 3-3.5'	Soluble	Solid	DI Leach	
890-1361-9	AH-1 4-4.5'	Soluble	Solid	DI Leach	
890-1361-10	AH-2 0-1'	Soluble	Solid	DI Leach	
890-1361-11	AH-2 1-1.5'	Soluble	Solid	DI Leach	
890-1361-12	AH-2 2-2.5'	Soluble	Solid	DI Leach	
890-1361-13	AH-2 3-3.5'	Soluble	Solid	DI Leach	
MB 880-9135/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9135/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9135/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1361-4 MS	H-4 0-.5'	Soluble	Solid	DI Leach	
890-1361-4 MSD	H-4 0-.5'	Soluble	Solid	DI Leach	

Leach Batch: 9136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-14	AH-2 4-4.5'	Soluble	Solid	DI Leach	
890-1361-15	AH-3 0-1'	Soluble	Solid	DI Leach	
890-1361-16	AH-3 1-1.5'	Soluble	Solid	DI Leach	
890-1361-17	AH-3 2-2.5'	Soluble	Solid	DI Leach	
890-1361-18	AH-3 3-3.5'	Soluble	Solid	DI Leach	
890-1361-19	AH-3 4-4.5'	Soluble	Solid	DI Leach	
MB 880-9136/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9136/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9136/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1361-14 MS	AH-2 4-4.5'	Soluble	Solid	DI Leach	
890-1361-14 MSD	AH-2 4-4.5'	Soluble	Solid	DI Leach	

Analysis Batch: 9314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-1	H-1 0-.5'	Soluble	Solid	300.0	9135
890-1361-2	H-2 0-.5'	Soluble	Solid	300.0	9135
890-1361-3	H-3 0-.5'	Soluble	Solid	300.0	9135
890-1361-4	H-4 0-.5'	Soluble	Solid	300.0	9135
890-1361-5	AH-1 0-1'	Soluble	Solid	300.0	9135
890-1361-6	AH-1 1-1.5'	Soluble	Solid	300.0	9135
890-1361-7	AH-1 2-2.5'	Soluble	Solid	300.0	9135
890-1361-8	AH-1 3-3.5'	Soluble	Solid	300.0	9135
890-1361-9	AH-1 4-4.5'	Soluble	Solid	300.0	9135
890-1361-10	AH-2 0-1'	Soluble	Solid	300.0	9135
890-1361-11	AH-2 1-1.5'	Soluble	Solid	300.0	9135
890-1361-12	AH-2 2-2.5'	Soluble	Solid	300.0	9135
890-1361-13	AH-2 3-3.5'	Soluble	Solid	300.0	9135
MB 880-9135/1-A	Method Blank	Soluble	Solid	300.0	9135
LCS 880-9135/2-A	Lab Control Sample	Soluble	Solid	300.0	9135
LCSD 880-9135/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9135

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 9314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-4 MS	H-4 0-.5'	Soluble	Solid	300.0	9135
890-1361-4 MSD	H-4 0-.5'	Soluble	Solid	300.0	9135

Analysis Batch: 9315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1361-14	AH-2 4-4.5'	Soluble	Solid	300.0	9136
890-1361-15	AH-3 0-1'	Soluble	Solid	300.0	9136
890-1361-16	AH-3 1-1.5'	Soluble	Solid	300.0	9136
890-1361-17	AH-3 2-2.5'	Soluble	Solid	300.0	9136
890-1361-18	AH-3 3-3.5'	Soluble	Solid	300.0	9136
890-1361-19	AH-3 4-4.5'	Soluble	Solid	300.0	9136
MB 880-9136/1-A	Method Blank	Soluble	Solid	300.0	9136
LCS 880-9136/2-A	Lab Control Sample	Soluble	Solid	300.0	9136
LCSD 880-9136/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9136
890-1361-14 MS	AH-2 4-4.5'	Soluble	Solid	300.0	9136
890-1361-14 MSD	AH-2 4-4.5'	Soluble	Solid	300.0	9136

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: H-1 0-.5'

Lab Sample ID: 890-1361-1

Date Collected: 09/29/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 00:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 11:17	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 19:22	CH	XEN MID

Client Sample ID: H-2 0-.5'

Lab Sample ID: 890-1361-2

Date Collected: 09/29/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 01:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 12:22	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 19:28	CH	XEN MID

Client Sample ID: H-3 0-.5'

Lab Sample ID: 890-1361-3

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 01:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 12:44	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 19:33	CH	XEN MID

Client Sample ID: H-4 0-.5'

Lab Sample ID: 890-1361-4

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 01:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: H-4 0-.5'

Lab Sample ID: 890-1361-4

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 13:06	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 19:39	CH	XEN MID

Client Sample ID: AH-1 0-1'

Lab Sample ID: 890-1361-5

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 02:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 13:28	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 19:56	CH	XEN MID

Client Sample ID: AH-1 1-1.5'

Lab Sample ID: 890-1361-6

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 02:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:01	CH	XEN MID

Client Sample ID: AH-1 2-2.5'

Lab Sample ID: 890-1361-7

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 02:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 14:12	AJ	XEN MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-1 2-2.5'

Lab Sample ID: 890-1361-7

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:18	CH	XEN MID

Client Sample ID: AH-1 3-3.5'

Lab Sample ID: 890-1361-8

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 03:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 14:34	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:24	CH	XEN MID

Client Sample ID: AH-1 4-4.5'

Lab Sample ID: 890-1361-9

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 03:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 14:57	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:29	CH	XEN MID

Client Sample ID: AH-2 0-1'

Lab Sample ID: 890-1361-10

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 04:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 15:19	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:35	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-2 1-1.5'

Lab Sample ID: 890-1361-11

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 05:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:40	CH	XEN MID

Client Sample ID: AH-2 2-2.5'

Lab Sample ID: 890-1361-12

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 05:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 16:25	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:46	CH	XEN MID

Client Sample ID: AH-2 3-3.5'

Lab Sample ID: 890-1361-13

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 05:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 16:47	AJ	XEN MID
Soluble	Leach	DI Leach			9135	10/08/21 15:52	CH	XEN MID
Soluble	Analysis	300.0		1	9314	10/12/21 20:52	CH	XEN MID

Client Sample ID: AH-2 4-4.5'

Lab Sample ID: 890-1361-14

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 06:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-2 4-4.5'

Lab Sample ID: 890-1361-14

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1	9315	10/12/21 21:37	CH	XEN MID

Client Sample ID: AH-3 0-1'

Lab Sample ID: 890-1361-15

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 06:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 17:31	AJ	XEN MID
Soluble	Leach	DI Leach			9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1	9315	10/12/21 21:54	CH	XEN MID

Client Sample ID: AH-3 1-1.5'

Lab Sample ID: 890-1361-16

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 06:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 17:53	AJ	XEN MID
Soluble	Leach	DI Leach			9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1	9315	10/12/21 21:59	CH	XEN MID

Client Sample ID: AH-3 2-2.5'

Lab Sample ID: 890-1361-17

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 07:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 18:14	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Client Sample ID: AH-3 2-2.5'

Lab Sample ID: 890-1361-17

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1	9315	10/12/21 22:05	CH	XEN MID

Client Sample ID: AH-3 3-3.5'

Lab Sample ID: 890-1361-18

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 07:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 18:36	AJ	XEN MID
Soluble	Leach	DI Leach			9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1	9315	10/12/21 22:10	CH	XEN MID

Client Sample ID: AH-3 4-4.5'

Lab Sample ID: 890-1361-19

Date Collected: 10/04/21 00:00

Matrix: Solid

Date Received: 10/05/21 10:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9107	10/11/21 10:24	KL	XEN MID
Total/NA	Analysis	8021B		1	9282	10/13/21 07:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	9297	10/12/21 10:57	KL	XEN MID
Total/NA	Analysis	8015 NM		1	9189	10/11/21 10:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9217	10/11/21 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1	9261	10/12/21 18:57	AJ	XEN MID
Soluble	Leach	DI Leach			9136	10/08/21 15:55	CH	XEN MID
Soluble	Analysis	300.0		1	9315	10/12/21 22:27	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Neptune

Job ID: 890-1361-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1361-1	H-1 0-.5'	Solid	09/29/21 00:00	10/05/21 10:28	0 - 0.5
890-1361-2	H-2 0-.5'	Solid	09/29/21 00:00	10/05/21 10:28	0 - 0.5
890-1361-3	H-3 0-.5'	Solid	10/04/21 00:00	10/05/21 10:28	0 - 0.5
890-1361-4	H-4 0-.5'	Solid	10/04/21 00:00	10/05/21 10:28	0 - 0.5
890-1361-5	AH-1 0-1'	Solid	10/04/21 00:00	10/05/21 10:28	0 - 1
890-1361-6	AH-1 1-1.5'	Solid	10/04/21 00:00	10/05/21 10:28	1 - 1.5
890-1361-7	AH-1 2-2.5'	Solid	10/04/21 00:00	10/05/21 10:28	2 - 2.5
890-1361-8	AH-1 3-3.5'	Solid	10/04/21 00:00	10/05/21 10:28	3 - 3.5
890-1361-9	AH-1 4-4.5'	Solid	10/04/21 00:00	10/05/21 10:28	4 - 4.5
890-1361-10	AH-2 0-1'	Solid	10/04/21 00:00	10/05/21 10:28	0 - 1
890-1361-11	AH-2 1-1.5'	Solid	10/04/21 00:00	10/05/21 10:28	1 - 1.5
890-1361-12	AH-2 2-2.5'	Solid	10/04/21 00:00	10/05/21 10:28	2 - 2.5
890-1361-13	AH-2 3-3.5'	Solid	10/04/21 00:00	10/05/21 10:28	3 - 3.5
890-1361-14	AH-2 4-4.5'	Solid	10/04/21 00:00	10/05/21 10:28	4 - 4.5
890-1361-15	AH-3 0-1'	Solid	10/04/21 00:00	10/05/21 10:28	0 - 1
890-1361-16	AH-3 1-1.5'	Solid	10/04/21 00:00	10/05/21 10:28	1 - 1.5
890-1361-17	AH-3 2-2.5'	Solid	10/04/21 00:00	10/05/21 10:28	2 - 2.5
890-1361-18	AH-3 3-3.5'	Solid	10/04/21 00:00	10/05/21 10:28	3 - 3.5
890-1361-19	AH-3 4-4.5'	Solid	10/04/21 00:00	10/05/21 10:28	4 - 4.5

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 901W Wall Street, Ste 1100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946


890-1361 Chain of Custody

Page 1 of 2

Client Name: E06 Resources		Site Manager: Brittany Long	
Project Name: Neptune		Project #: 212C-MD-02520	
Project Location: (county, state) Lea County, New Mexico		Invoice to: Todd Wells - E06 Resources	
Receiving Laboratory: Kenco Forefins		Sampler Signature: Myles Taulh	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
A-1	0-5'	9/29/21		X		X		X		X		X		BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Hold
A-2	0-5.5'	9/29/21		X		X		X		X		X		
A-3	0-5.5'	10/4/21		X		X		X		X		X		
A-4	0-5.5'	10/4/21		X		X		X		X		X		
AH-1	0-1'	10/4/21		X		X		X		X		X		
AH-1	1-1.5'	10/4/21		X		X		X		X		X		
AH-1	2-2.5'	10/4/21		X		X		X		X		X		
AH-1	3-3.5'	10/4/21		X		X		X		X		X		
AH-1	4-4.5'	10/4/21		X		X		X		X		X		
AH-2	0-1'	10/4/21		X		X		X		X		X		

Relinquished by: Myles Taulh	Date: 10/5/21	Received by: N. L...	Date: 10/6/21	Time: 10:28
Relinquished by:	Date:	Received by:	Date:	Time:
Relinquished by:	Date:	Received by:	Date:	Time:

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

LAB USE ONLY	2.6/24
--------------	--------

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page 2 of 2

Tetra Tech, Inc.

801 W. Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4599
Fax (432) 682-3946

ANALYSIS REQUEST

(Circle or Specify Method No.)

Client Name:

EOG Resources

Project Name:

Neptune

Project Location:

(county, New Mexico

Project #:

212C-MD-02528

Invoice to:

EOG Resources

Receiving Laboratory:

Neptune

Sampler Signature:

Neptune

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

YEAR: 2000	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			

AH-2	1-1.3'	10/4/21	X	X	X	X	X	X	X	X	X
AH-2	2-2.5'	10/4/21	X	X	X	X	X	X	X	X	X
AH-2	3-3.5'	10/4/21	X	X	X	X	X	X	X	X	X
AH-2	4-4.5'	10/4/21	X	X	X	X	X	X	X	X	X
AH-3	0-1'	10/4/21	X	X	X	X	X	X	X	X	X
AH-3	1-1.5'	10/4/21	X	X	X	X	X	X	X	X	X
AH-3	2-2.5'	10/4/21	X	X	X	X	X	X	X	X	X
AH-3	3-3.5'	10/4/21	X	X	X	X	X	X	X	X	X
AH-3	4-4.5'	10/4/21	X	X	X	X	X	X	X	X	X

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

2.6/2.4

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Eurofins Xenco, Carlsbad

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurolins | Environ
America

Environment Testing America

Ver. 06/08/2021

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins

Environment Testing America

Client Information (Sub Contract Lab)				Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:				Phone:	Kramer, Jessica		890-446 2									
Shipping/Receiving					E-Mail: jessica.kramer@eurofinsnet.com	State of Origin	Page: 2 of 3									
Company: Eurofins Xenco					Accreditations Required (See note): NELAP - Louisiana NELAP - Texas	New Mexico	Job #: 890-1361-1									
Address: 1211 W Florida Ave.				Due Date Requested: 10/11/2021	Preservation Codes											
City: Midland				YAT Requested (days):	A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amthor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA Other:											
State Zip: TX 79701				PO #:	M. Hexane N. None O. AsNaO2 P. Na2O4S Q. Na2SO3 R. Na2SO3 S. H2SO4 T. TSP Dodecylhydrate U. Acetone V. MCAA W. PH 4-5 Z. other (specify)											
Phone: 432-704-5440(Tel)				WO #:												
Email:				Project #:												
Project Name: Neptune				SSOW#:												
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Solid, O=Organic Sol, B=Triside, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note
AH-2 0-1' (890-1361-10)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-2 1-1 5' (890-1361-11)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-2 2-2 5' (890-1361-12)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-2 3-3 5' (890-1361-13)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-2 4-4 5' (890-1361-14)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-3 0-1' (890-1361-15)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-3 1-1 5' (890-1361-16)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-3 2-2 5' (890-1361-17)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
AH-3 3-3 5' (890-1361-18)				10/4/21	Mountain		Solid	X	X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2																
Empty Kit Relinquished by: Date: Time: Method of Shipment:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Date/Time: Company:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: Date/Time: Company:																
Custody Seals Intact: Custody Seal No: Cooler Temperature: °C and °F (Remarks):																
Δ Yes Δ No																

1	
2	
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Eurofins Xenco Carlsbad

1089 N Canal St
Carlsbad NM 88220
Phone, 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurolins
Environment Testing
America

[illegible]

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1361-1

SDG Number: Lea County NM

Login Number: 1361

List Number: 1

Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1361-1

SDG Number: Lea County NM

Login Number: 1361

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland

List Creation: 10/06/21 11:39 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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 98368

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 98368
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/18/2022