

Report Type: Work Plan

General Site Information:

Site:	Golden Graham to Shocker SWD Line Release				
Company:	EOG Resources				
Section, Township and Range	Unit M	Sec 01	T 26S	R 28E	
County:	Eddy County				
GPS:	32.07480			-104.04020	
Surface Owner:	State				
Directions:	From the intersection of HWY 285 and Longhorn Rd, travel north on HWY 285 for 1.50 miles, turn east onto lease road and continue for 0.75 miles, turn south for 0.58 miles, turn northeast for 0.87 miles to location.				

Release Data:

Date Released:	4/1/2019
Type Release:	Produced Water
Source of Contamination:	Poly Line
Fluid Released:	615 bbls
Fluids Recovered:	0 bbls

Official Communication:

Name:	James Kennedy	Clair Gonzales
Company:	EOG Resources	Tetra Tech
Address:	5509 Champions Dr	901 W. Wall St.
		Ste 100
City:	Midland Texas, 79706	Midland, Texas
Phone number:	(432) 258-4346	(432) 682-4559
Fax:		
Email:	James.Kennedy@eogresources.com	Clair.Gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	120'
Surface Water:	Along Pecos River
Karst Potential:	Medium

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 or Background



June 1, 2022

Mr. Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Excavation and Monitoring Work Plan for the EOG Resources, Golden Graham to Shocker, Unit M, Section 01, Township 26 South, Range 28 East, Eddy County, New Mexico.

Tetra Tech, Inc. (Tetra Tech) is pleased to provide this proposal to EOG Resources (EOG) to perform the excavation and monitoring at the Golden Graham to Shocker, located in Eddy County, New Mexico. The spill site coordinates are 32.0748, -104.0402. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on April 1, 2019 and released approximately 615 barrels of produced water. An 8" poly line between the Golden Graham 1 St Com and Shocker SWD, which is bored beneath the Pecos River and is enclosed in a 10" steel casing pipe, over pressured resulting in the parting of the 8" poly line. The release filled the casing and released through the vent pipes located on each side of the river. The release migrated into the pasture and toward the river on the east and west sides. The release did not impact the Pecos River. The release impacted areas in the pasture measuring approximately 55' x 365', 60' x 525', and 250' x 330'. The C-141 Form is included in **Appendix A**.

Site Characterization

A site characterization was performed for the site and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, incorporated municipal boundaries, or subsurface mines, are located within the specified distances. However, the site is located in a medium karst potential area and occurred along the Pecos River. A wetlands and floodplain survey were performed, which indicates that the release migrated along a small portion of wetland and floodplain. The wetland and floodplain areas are shown in **Figure 3**.

The nearest well is listed on the New Mexico Office of the State Engineers (NMOSE) database, in Section 02 approximately 0.95 miles west of the site and has a reported depth to groundwater of 120 feet below surface.

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 hydrocarbon (TPH) in soil. The proposed



RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg or background, whichever is higher.

Soil Assessment and Analytical Results

Initial Assessment

On July 22, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of sixteen (16) auger holes (AH-1 through AH-16) and three (3) horizontal sample points (Horizontal 1, Horizontal 2, and Horizontal 3) were installed in the release footprint to total depths ranging from 0-1' and 1-1.5' below surface. All collected samples were submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix C**. The results of the sampling are summarized in **Table 1**. The sample locations are shown in **Figure 3**.

Referring to **Table 1**, none of the samples collected showed benzene or total BTEX above the laboratory reporting limits. The area of auger hole (AH-7) showed TPH concentrations above the RRAL, with a TPH concentration of 175 mg/kg at 0-1 ft bgs, which declined with depth to 37.1 mg/kg at 1-1.5 ft bgs. Additionally, the areas of auger holes (AH-5, AH-7, AH-8, AH-14, AH-15, and AH-16) and horizontals (Horizontal 1, and Horizontal 3) displayed chloride concentrations below background concentrations.

The areas of horizontal sample (Horizontal 2) and auger holes (AH-1, AH-2, AH-3, AH-4, AH-6, AH-9, AH-10, AH-11, AH-12, and AH-13) showed chloride concentrations ranging from 3,690 mg/kg (AH-10) to 21,600 mg/kg (Horizontal 2).

Water Sampling

On September 17, 2019 Tetra Tech personnel were on site to collect three (3) water samples from the Pecos River for background comparison: upstream, midstream, and downstream relative to release point. The water samples were submitted to the laboratory for chlorides by EPA method 300. Laboratory analysis and chain-of-custody documentation are included in **Appendix C**. The results of the sampling are summarized in **Table 2**, and sample locations are shown in **Figure 3**.

Referring to **Table 2**, the upstream sample showed a chloride concentration of 1,500 mg/kg, the sample collected closest to the release area (midstream) at 1,780 mg/kg, and the sample collected downstream a concentration of 1,610 mg/kg.

2019 Additional Soil Sampling

Tetra Tech personnel returned to the site on September 17-18, 2019 to complete vertical delineation of auger holes (AH-5, AH-6, AH-9, AH-10, AH-11, AH-12, and AH-13). Samples were collected to total depths ranging from 3-3.5 ft and 5-5.5 ft bgs. Three (3) additional auger holes (AH-17, AH-18, and AH-19) were installed within the wetland and floodplain areas to total depths of 1-1.5 ft bgs, to further assess potential impact in these areas. Additionally, four (4) background samples were collected along the banks on both side of the Pecos River. Background sample (Background #1) indicated a chloride concentration of 3,330 mg/kg, and this concentration was used as the qualifying criteria minimum for soils in this area of the Pecos River. All collected samples were submitted to the laboratory for chloride by EPA method 300.00. Laboratory analysis and chain-of-custody files are included in **Appendix C** and summarized in **Table 1**. The sample locations are



shown in **Figure 3**.

Referring to **Table 1**, the area of auger hole (AH-13) did not indicate chloride concentrations above background concentrations. The areas of auger holes (AH-5, AH-11, and AH-12) showed chloride impact above background concentrations at 1-1.5 ft bgs, before declining to below background concentrations at 2-2.5 ft bgs. Additionally, the areas of auger holes (AH-6, AH-9, and AH-10) were not vertically delineated for chlorides concentrations at depths ranging from 3-3.5 and 4-4.5 ft bgs. Deeper samples were not collected due to a dense formation in the area.

The areas of auger holes (AH-17, AH-18, and AH-19) collected within boundaries of the wetland and/or floodplain areas of the release, did not show any chloride concentrations above background, with concentrations ranging from 239 mg/kg for auger hole (AH-19) at 1-1.5 ft bgs, and 2,660 mg/kg for auger hole (AH-17) at 1-1.5 ft bgs.

2022 Additional Soil Sampling

EOG submitted a work plan dated March 26, 2021, which was denied by the NMOCD on May 2, 2022. Tetra Tech personnel returned to the site on May 12-13, 2022, to reevaluate the impact and install additional background samples closer to the release area, as requested by the NMOCD. A total of nineteen (19) auger holes (AH-1 through AH-19) were installed in the same locations as their corresponding auger hole installed in July and September of 2019. Additionally, two (2) background samples (Background 1 and Background 2) were collected upstream from the impacted area. Both background samples were collected within eighty (80) feet from impacted area, on the banks of the river, with background sample (BG-1) installed on the north bank, and background sample (BG-2) installed on the south bank of the Pecos River. All samples were submitted to Cardinal Laboratories in New Mexico, and analyzed for chloride by EPA method 300.00, TPH by EPA method 8015 modified, and BTEX by EPA Method 8021B. Laboratory analysis documentation is included in **Appendix C**. The results are summarized in **Table 1**, and the sample locations are shown in **Figure 4**.

The areas of auger holes (AH-3, AH-4, AH-5, and AH-11 through AH-16) and horizontal (H-2), indicated chloride, BTEX, or TPH concentrations below RRALs. Areas of auger holes (AH-1, AH-2, AH-7, AH-8, AH-10, AH-18, and AH-19) indicated BTEX, and TPH concentrations below RRALs, additionally, these areas showed chloride concentrations above criteria. The areas for auger holes (AH-6, AH-9, AH-10, AH-17, AH-18, AH-19), showed a decreasing trend in chloride concentrations from samples collected from July of 2019 to May of 2022. The area of auger hole (AH-6) showed a considerable decrease in chloride concentration at all depths analyzed, with surface sample at depth of 0-1 ft bgs concentration going from 9,040 mg/kg (7/22/2019), to 6,200 mg/kg (9/18/2019), and 1,170 mg/kg (5/13/2022). Areas of auger holes (AH-17, AH-18, and AH-19) are located on the wetlands of the Pecos River.

Work Plan

Tetra Tech proposes the remediation of areas corresponding to auger holes (AH-7, and AH-8) to depths of at least 4.5 ft below ground surface, given the increased chloride concentrations from the samples collected in 2019 to 2022. Areas of auger holes (AH-1 and AH-2) will be delineated for chloride and excavated according to concentrations. The site will be held to most stringent standards for chloride (600 mg/kg), and TPH (100 mg/kg). Five-point composite bottom hole and sidewall confirmation samples will be collected every 200 square feet to ensure proper removal of the impacted soils.

Based on the decreasing trend for chloride concentrations for auger hole areas (AH-6, AH-9, AH-10, AH-17, AH-18, AH-19), and in effort to mitigate risk of further impact especially to the wetland areas near auger holes (AH-17, AH-18, AH-19), Tetra Tech proposes the monitoring



of these areas. Site monitoring activities will be performed on a quarterly basis or after a heavy rain event until the chlorides are below regulatory limit.

Additionally, the areas of auger holes (AH-3, AH-4, AH-5, and AH-11 through AH-16) indicated chloride, BTEX, and TPH concentrations below RRALs. Based on the data collected, Tetra Tech proposes no further actions are necessary for these areas.

Once the remediation is complete, the excavated areas will be backfilled with clean material to surface grade.

Conclusion

Once the remediation activities have been completed, including the quarterly monitoring of the specified areas, a final report will be submitted.

Closing

Please feel free to contact me at (432) 488-7433 or by email to E.MorenoFlores@TetraTech.com if you have any questions regarding this submittal

Sincerely,

Ezequiel A Moreno Flores
Staff Geologist II
Tetra Tech, Inc.

Brittany Long,
Project Manager
Tetra Tech, Inc.

Clair Gonzales, P.G.
Senior Project Manager
Tetra Tech, Inc

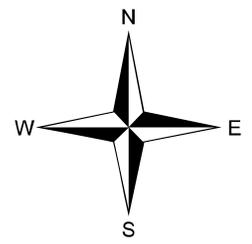
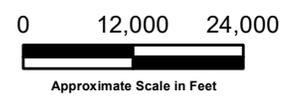
Tetra Tech, Inc.
901 West Wall, Suite 100, Midland, TX 79701
Tel (432) 682.4559 Fax (432) 682.3946 tetratech.com



Figures



▲ SITE LOCATION

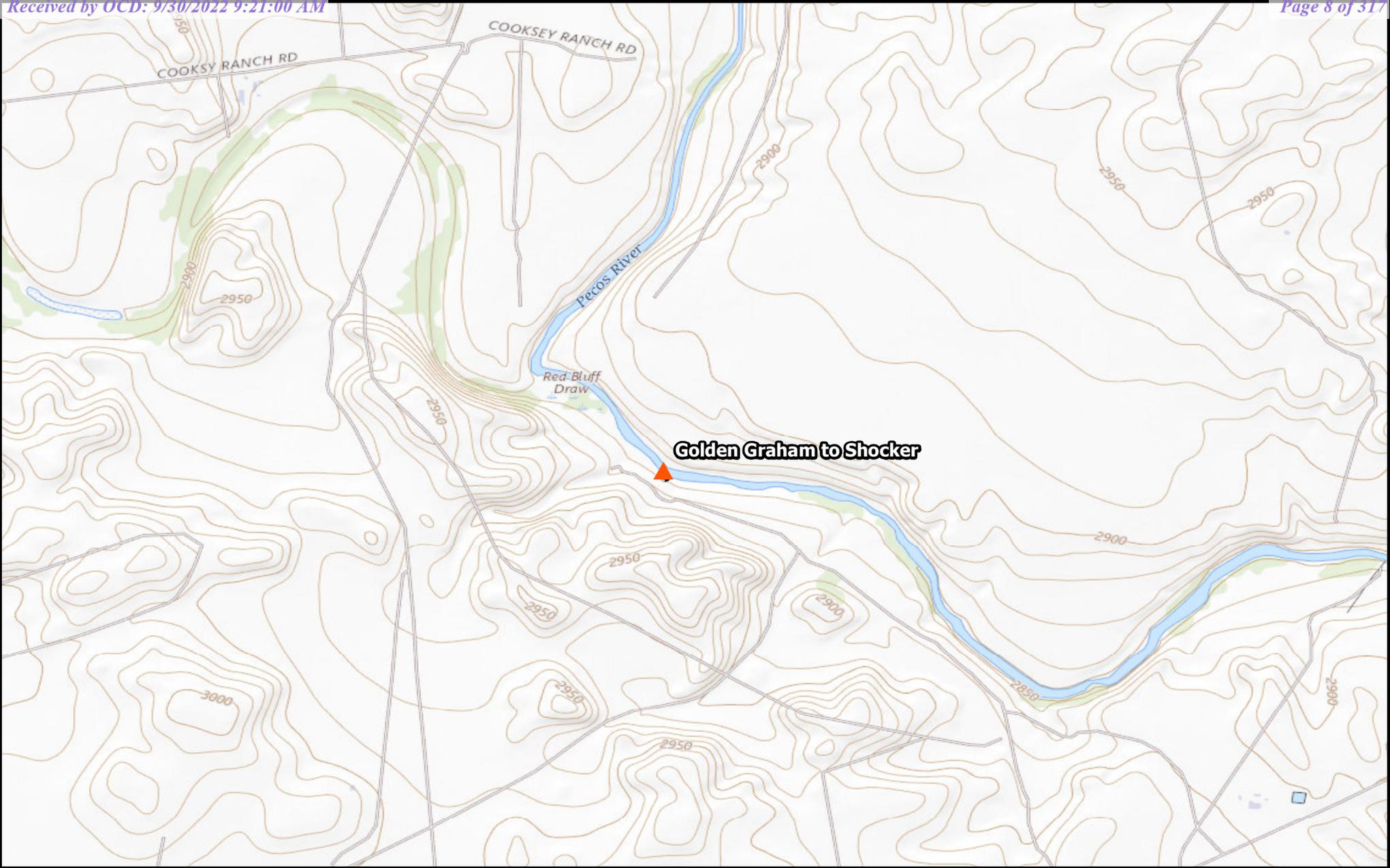


OVERVIEW MAP
 GOLDEN GRAHAM TO SHOCKER
 EDDY COUNTY, NEW MEXICO
 32.074800°, -104.040200°

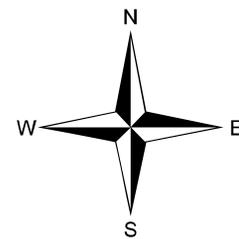
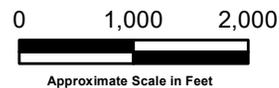
FIGURE 1

PROJECT:
 212C-MD-02772





▲ SITE LOCATION

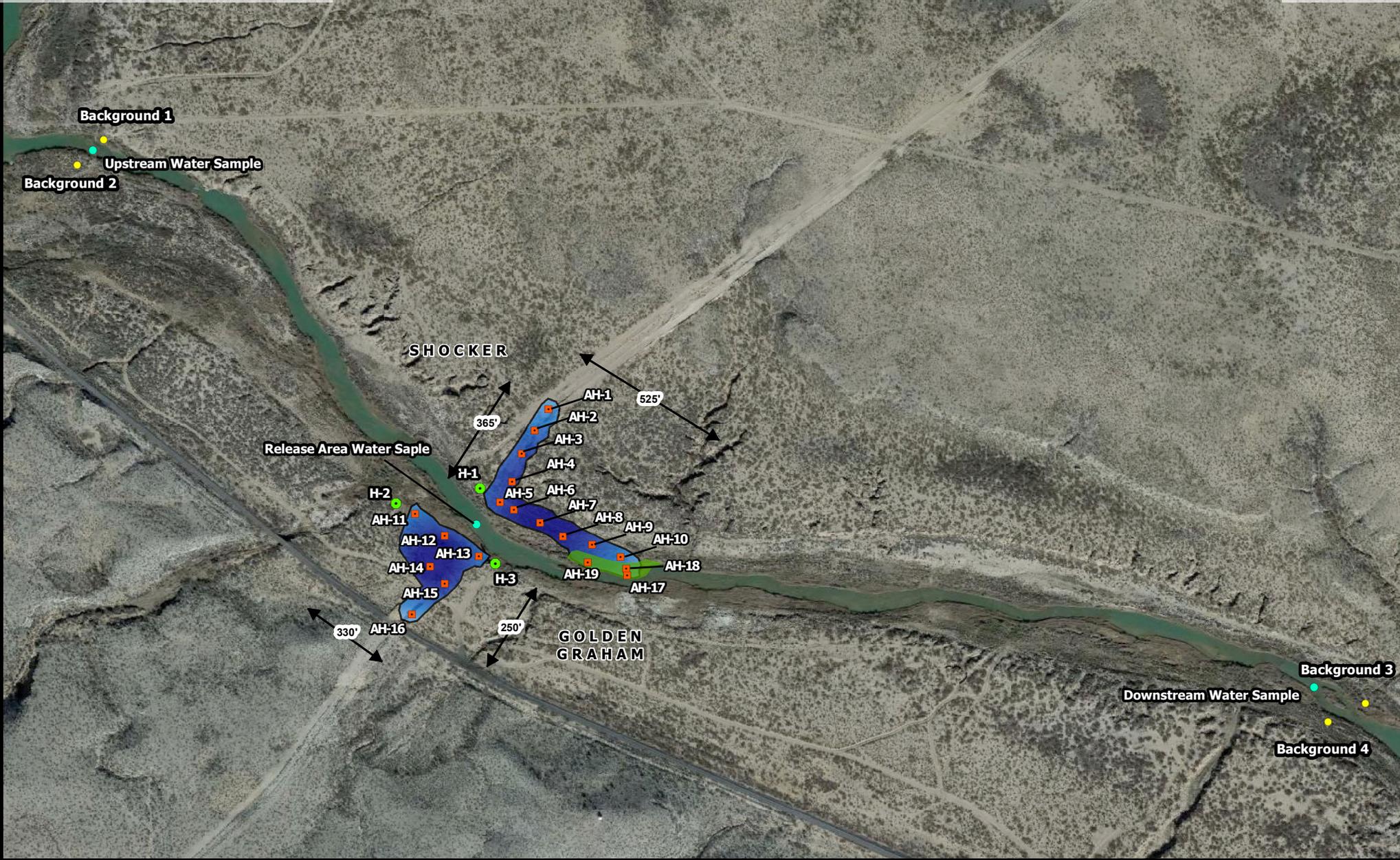


TOPOGRAPHIC MAP
 GOLDEN GRAHAM TO SHOCKER
 EDDY COUNTY, NEW MEXICO
 32.074800°, -104.040200°

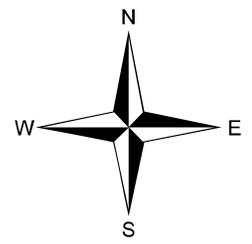
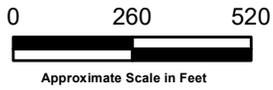
FIGURE 2

PROJECT:
212C-MD-02772





- WATER SAMPLE LOCATIONS
- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- BACKGROUND SAMPLE LOCATIONS
- WETLANDS
- SPILL AFFECTED AREA

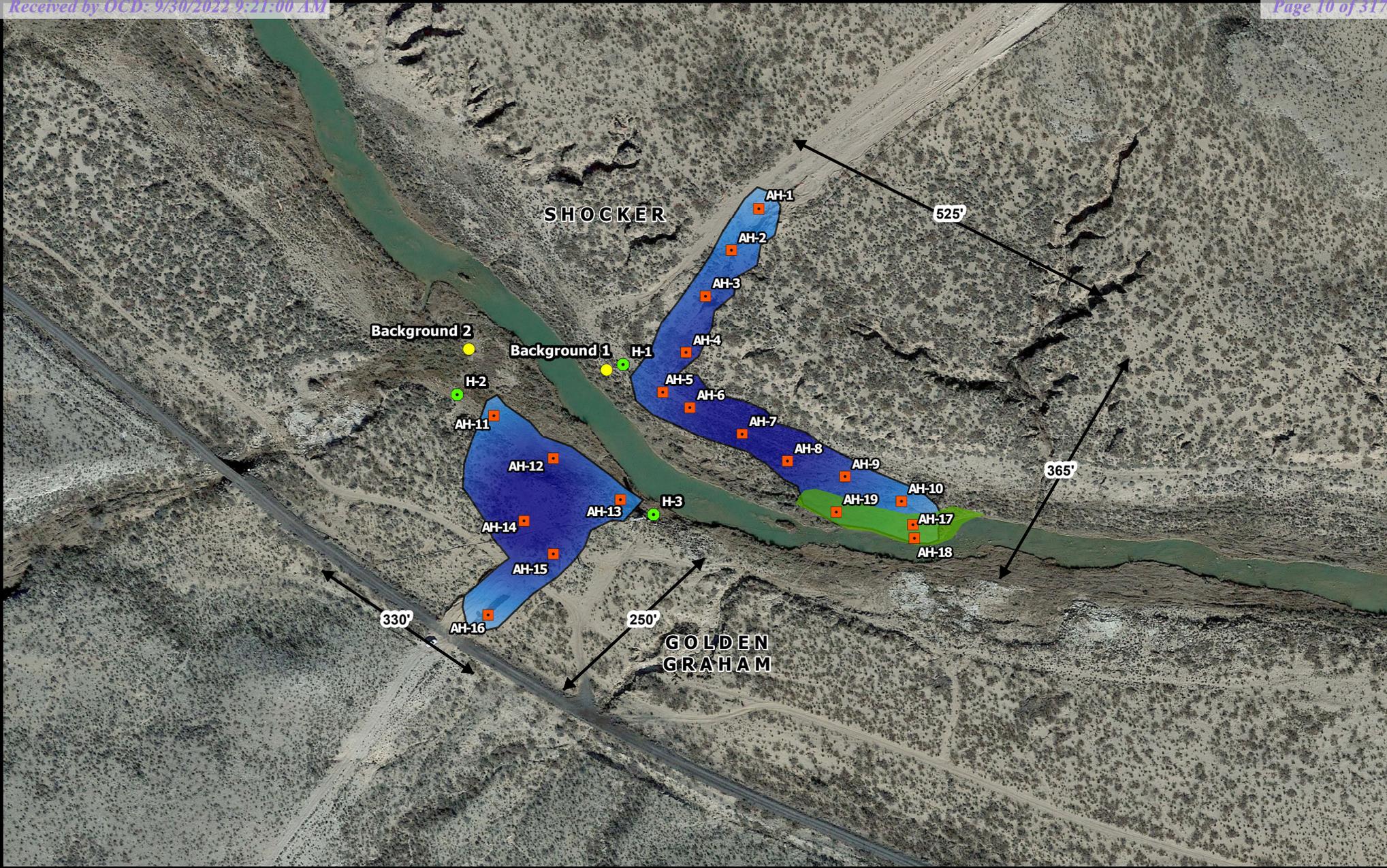


SPILL ASSESSMENT MAP (2019)
 GOLDEN GRAHAM TO SHOCKER
 EDDY COUNTY, NEW MEXICO
 32.074800°, -104.040200°

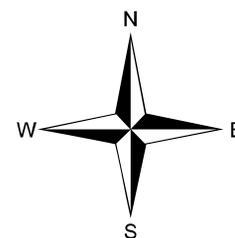
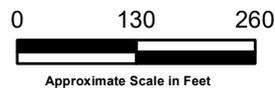
FIGURE 3

PROJECT:
212C-MD-02772





- BACKGROUND SAMPLE LOCATIONS
- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- WETLANDS
- SPILL AFFECTED AREA

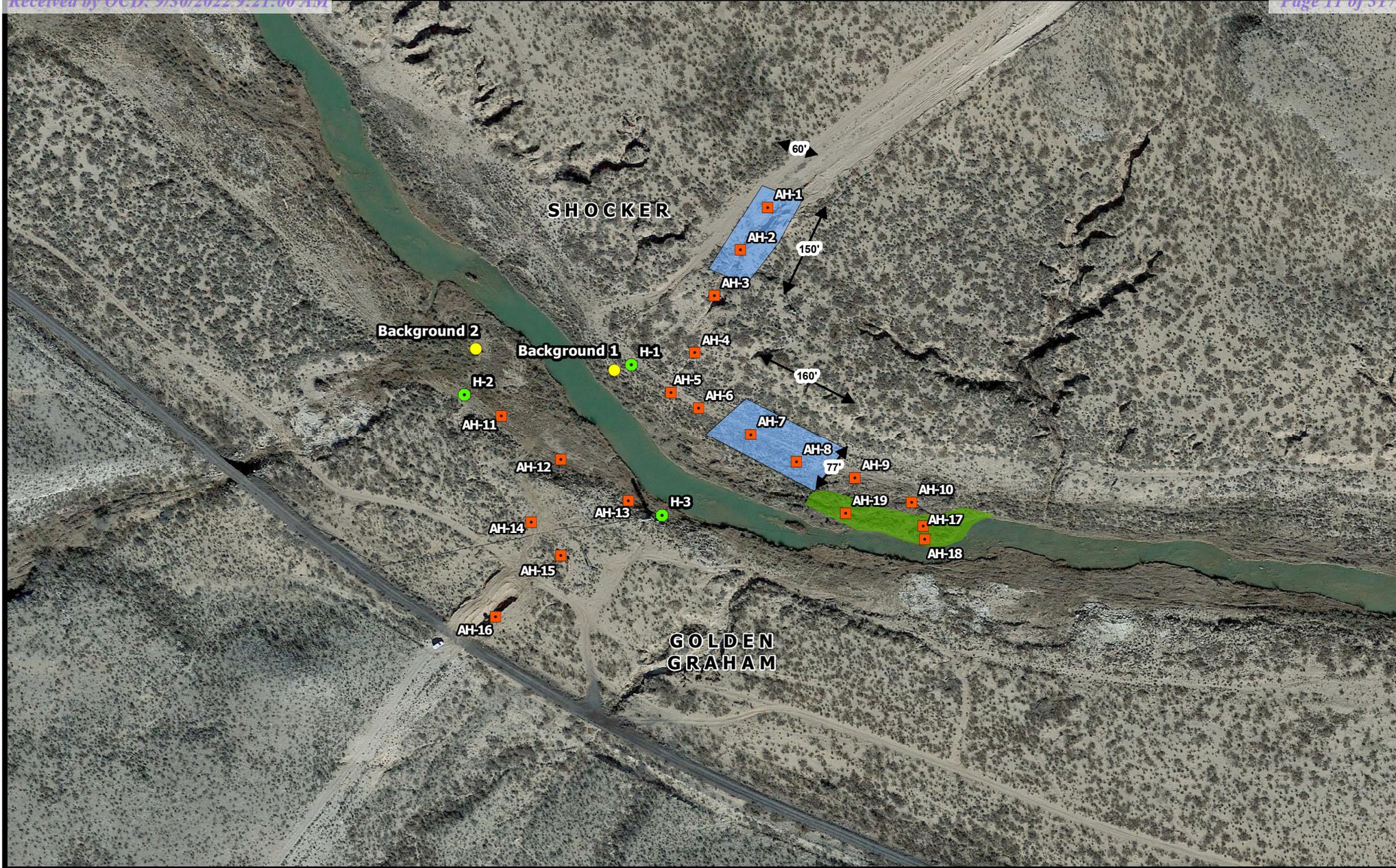


SPILL ASSESSMENT MAP (2022)
 GOLDEN GRAHAM TO SHOCKER
 EDDY COUNTY, NEW MEXICO
 32.074800°, -104.040200°

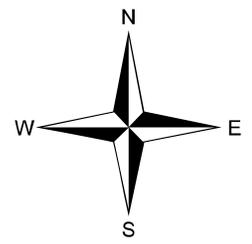
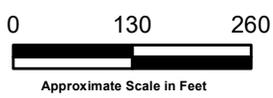
FIGURE 4

PROJECT:
 212C-MD-02772





- BACKGROUND SAMPLE LOCATIONS
- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- 4.5' PROPOSED EXCAVATION
- WETLANDS



PROPOSED EXCAVATION AREA & DEPTH MAP
GOLDEN GRAHAM TO SHOCKER
EDDY COUNTY, NEW MEXICO
32.074800°, -104.040200°

FIGURE 5

PROJECT:
212C-MD-02772





Tables

Table 1
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-1	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,190
	"	1-1.5	X		<15.0	16.3	<15.0	16.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,950
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896	
AH-2	7/22/2019	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,940
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	7,020
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	832	
AH-3	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,510
	"	1-1.5	X		<15.0	24.3	<15.0	24.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5,620
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64	
AH-4	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5,100
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,820
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	480
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528	

Table 1
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-5	7/22/2019	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,620
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,620
	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	450
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	7,550
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	1,670
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	1,120
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	2,840
	"	5-5.5	X		-	-	-	-	-	-	-	-	-	258
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
AH-6	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	9,040
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	6,430
	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	6,200
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	2,210
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	5,010
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	597
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	4,650
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,170
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,280
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,200
"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	496	
AH-7	7/22/2019	0-1	X		<15.0	147	27.5	175	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	167
	"	1-1.5	X		<15.0	37.1	<15.0	37.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	608
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,680
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,380
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,460
AH-8	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	460
	"	1-1.5	X		<14.9	<14.9	<14.9	<14.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	410
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	688
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,410
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,150
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,260

Table 1
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-9	7/22/2019	0-1	X		<15.0	16.2	<15.0	16.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,980
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,010
	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	4,300
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	2,140
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	1,120
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	3,920
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,100	
"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512	
AH-10	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	14,700
	"	1-1.5	X		<14.9	<14.9	<14.9	<14.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	3,690
	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	1,000
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	3,000
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	3,670
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	3,800
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,460	
"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,490	
AH-11	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	5,290
	9/19/2019	0-1	X		-	-	-	-	-	-	-	-	-	4,950
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,680
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	2,310
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	2,430
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	1,300
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48	

Table 1
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-12	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,720
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,100
	9/19/2019	0-1	X		-	-	-	-	-	-	-	-	-	4,400
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	3,900
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	2,700
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	3,170
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	1,630
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
AH-13	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	4,250
	"	1-1.5	X		<14.9	<14.9	<14.9	<14.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2,930
	9/19/2019	0-1	X		-	-	-	-	-	-	-	-	-	2,630
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	2,550
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	1,970
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	1,560
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	1,120
	"	5-5.5	X		-	-	-	-	-	-	-	-	-	817
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48
AH-14	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,450
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	2,160
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80	

Table 1
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-15	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	15.5
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	26.7
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192	
AH-16	7/22/2019	0-1	X		<14.9	<14.9	<14.9	<14.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	18.6
	"	1-1.5	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	153
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64
	"	3-3.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
"	4-4.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48	
AH-17	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	894
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	2,660
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	1,990
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,520
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,490
	"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
AH-18	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	1,470
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	521
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,560
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,020
"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	864	
AH-19	9/18/2019	0-1	X		-	-	-	-	-	-	-	-	-	2,350
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	239
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,300
	"	1-1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,090
"	2-2.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	944	

Table 1
EOG Resources
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
Horizontal 1	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	133
	5/13/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32
Horizontal 2	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	21,600
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
Horizontal 3	7/22/2019	0-1	X		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,060
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
Background #1	9/17/2019	0-1	X		-	-	-	-	-	-	-	-	-	3,330
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
Background #2	9/17/2019	0-1	X		-	-	-	-	-	-	-	-	-	770
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	920
	5/12/2022	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
Background #3	9/17/2019	0-1	X		-	-	-	-	-	-	-	-	-	1,780
Background #4	9/17/2019	0-1	X		-	-	-	-	-	-	-	-	-	1,010

 Exceeding Background Maximum (9/17/2019)

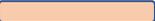
 Exceedance

Table 2
EOG
Golden Graham to Shocker
Eddy County, New Mexico

Sample ID	Sample Date	Chloride (mg/kg)
Upstream	9/17/2019	1,500
Midstream	9/17/2019	1,780
Downstream	9/17/2019	1,610



Photographic Documentation

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river vent pipe



East side of the river vent pipe

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river vent pipe



East side of the river, looking west washout

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking Southwest over pasture

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river, looking west over flood plain



East side if the river looking east over bluffs

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side if the river salt staining



East side of the river looking west over flood plain

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west over flood plain



East side of the river looking west over vegetation die back

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking north



East side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA
TECH



West side of the river looking south, Railroad tracks



West side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



West side of river vent pipe repair

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river, looking north



West side of river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking north



West side of the river looing south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river looking north



West side of the river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking south



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking north over washout



East side of the river looking east over wash out

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking north over flood plain



West side of the river looking south over river

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river looking north over arch site



West side of the river looking south over arch site

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east over river



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



Middle of the river looking north upstream

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



Middle of the river looking north upstream



East side of the river looking west upstream

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



Middle of the river looking east



Middle of the river looking north upstream

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river vent pipe



East side of the river vent pipe

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river vent pipe



East side of the river, looking west washout

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking Southwest over pasture

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river, looking west over flood plain



East side if the river looking east over bluffs

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side if the river salt staining



East side of the river looking west over flood plain

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA
TECH



East side of the river looking west over flood plain



East side of the river looking west over vegetation die back

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking north



East side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA
TECH



West side of the river looking south, Railroad tracks



West side of the river looking north

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



West side of river vent pipe repair

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river, looking north



West side of river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



Monday, July 22, 2019 at 2:20:53 PM
Pecos River

West side of the river looking north



Monday, July 22, 2019 at 2:20:06 PM
Pecos River

West side of the river looing south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river looking north



West side of the river looking south

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking south



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking north over washout



East side of the river looking east over wash out

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking north over flood plain



West side of the river looking south over river

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of river looking north over arch site



West side of the river looking south over arch site

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east over river



West side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



West side of the river looking east



Middle of the river looking north upstream

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



Middle of the river looking north upstream



East side of the river looking west upstream

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



Middle of the river looking east



Middle of the river looking north upstream

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



East side of the river looking west



East side of the river looking west

EOG
Golden Graham to Shocker
Eddy County, New Mexico



TETRA TECH



☉ 42°NE (T) LAT: 32.075360 LON: -104.040199 ±32ft ▲ 2875ft



EOG
Tetra Tech

Golden Graham to Shocker
May 12 2022, 15:11:35 EDT

West side of the river looking northeast



☉ 300°NW (T) LAT: 32.075511 LON: -104.039254 ±16ft ▲ 2867ft



EOG
Tetra Tech

Golden Graham to Shocker
May 13 2022, 15:23:26 EDT

East side of the river sampling, looking west



Appendix A

Form C-141

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name James Kennedy	Contact Telephone 432-258-4346
Contact email James_Kennedy@eogresources.com	Incident # (assigned by OCD)
Contact mailing address 5509 Champions Drive, Midland, TX 79706	

Location of Release Source

Latitude 32.0748 _____ Longitude -104.0402 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Golden Graham to Shocker SWD Line Release	Site Type Pipeline ROW
Date Release Discovered 04/01/19	API# (if applicable) 30-015-45324

Unit Letter	Section	Township	Range	County
M	1	26S	28E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 615	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

8" poly SWD line carrying produced water from the Golden Graham 1 St Com #701H and #721H Facility to Shocker SWD #1 and a 3rd Party SWD owned by Solaris. The subject line is bored under the Pecos River, and is encased in a 10" steel casing pipe. During operations, the Solaris SWD was shut in for an unknown reason, causing the line to over pressure, resulting in a parting of the 8" poly SWD line. The release filled the casing and released through the vent pipes located on each side of the river. The release migrated toward the river on the east and west side. Initial assessment of the impacted area does not indicate impact to the waters of the Pecos River.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbls of produced water released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by James Kennedy (EOG) to Mike Bratcher (OCD) via phone call on 4-1-19 at 1630.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>James F. Kennedy</u> Title: <u>Environmental Specialist</u> Signature: <u><i>James F. Kennedy</i></u> Date: <u>4-3-19</u> email: <u>James_Kennedy@eogresources.com</u> Telephone: <u>432-258-4346</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: James F Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: James F. Kennedy Title: Environmental Specialist
 Signature: *James F Kennedy* Date: 7-1-22
 email: James_Kennedy@eogresources.com Telephone: 432-258-4346

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____



Appendix B

Site Characterization

Water Well Data
Average Depth to Groundwater (ft)
EOG - Golden Graham to Shocker

25 South 27 East

6	5	4	3	2	33	1
7	8	9	10	11	12	92
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	19

25 South 28 East

6	5	4	35	3	32	2	1
7	59	8	9	10	11	12	
18	17	16	15	48	14	13	
67	19	20	21	22	23	24	
96	30	29	28	27	26	40	25
15	31	32	33	34	35	36	40

25 South 29 East

6	40	5	4	3	2	1	
7	8	9	10	11	12		
18	17	16	15	40	14	13	
19	20	21	22	60	23	24	
30	29	28	27	26	25		
30	31	32	115	33	34	35	36

26 South 27 East

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

26 South 28 East

6	5	4	3	2	120	1	
7	8	9	10	11	12	100	
18	17	16	15	14	13	120	56
19	20	21	22	23	24		
120	30	29	28	27	26	25	
31	32	33	34	35	36		

26 South 29 East

6	5	78	4	3	2	1	
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21	125	22	57	23	24
69	30	29	28	27	26	25	
31	32	33	34	35	36		

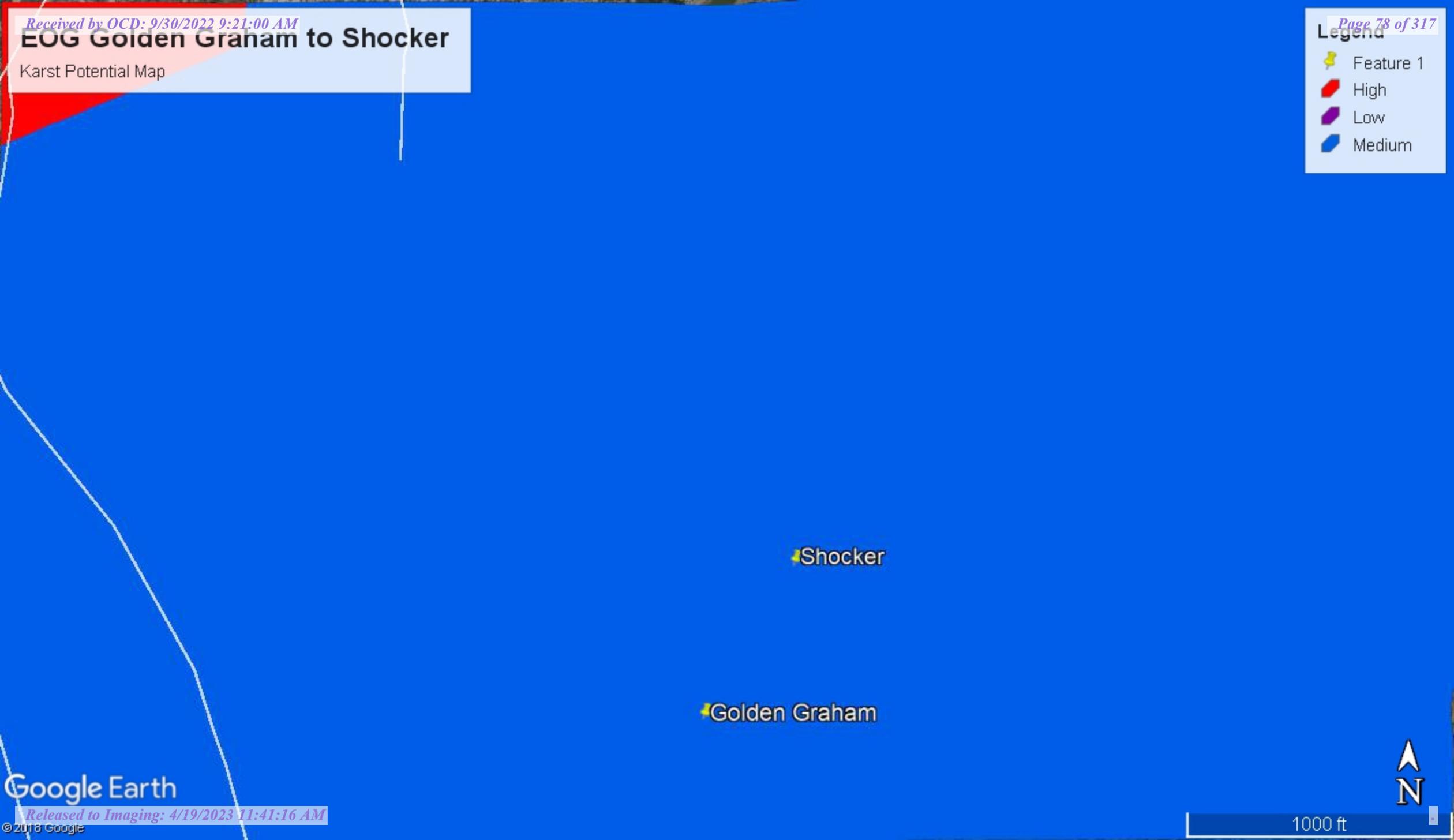
- 88** New Mexico State Engineers Well Reports
- 105** USGS Well Reports
- 90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34** NMOCD - Groundwater Data
- 121** Abandoned Waterwell (recently measured)

EOG Golden Graham to Shocker

Karst Potential Map

Legend

- Feature 1
- High
- Low
- Medium





National Water Information System: Mapper

Search

Search by Street Address:

Search by Place Name:

Search by Site Number(s):

Search by State/Territory:

Search by Watershed Region:

[Surface-Water Sites](#)

[Groundwater Sites](#)

[Springs](#)

[Atmospheric Sites](#)

[Other Sites](#)



Site Information



USGS Home
Contact USGS
Search USGS

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 =
• 320518104031401

Minimum number of levels = 1

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

USGS 320518104031401 25S.28E.35.2324

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°05'19.0", Longitude 104°03'17.3" NAD83

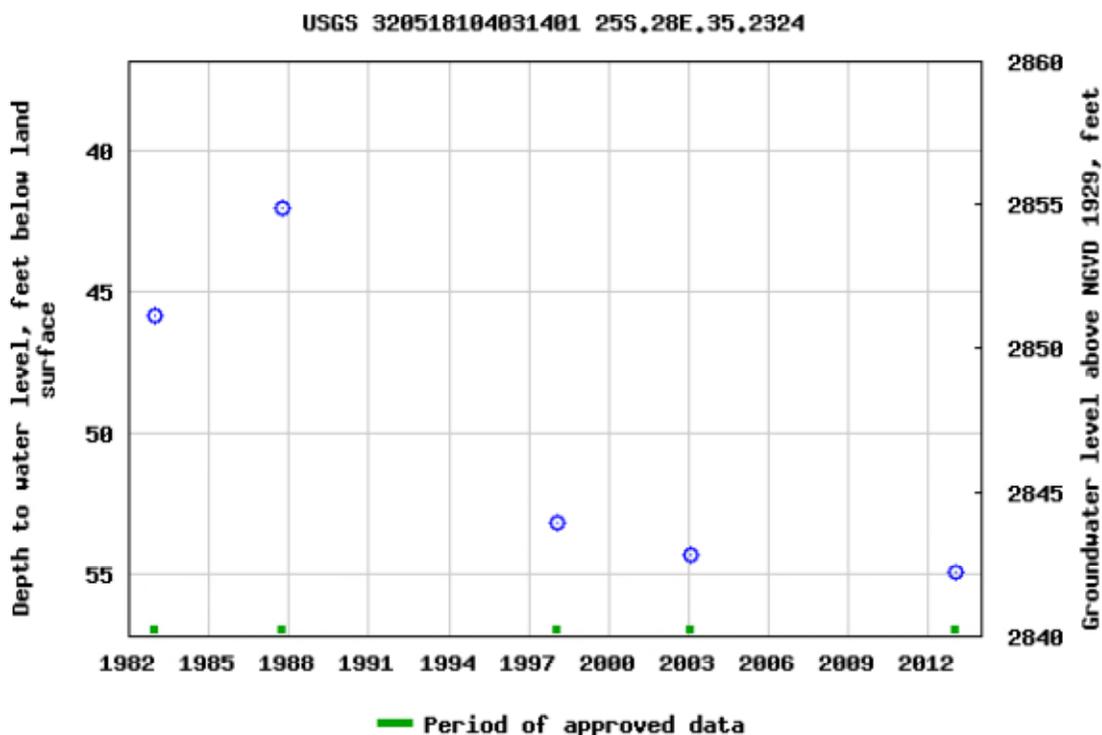
Land-surface elevation 2,897 feet above NGVD29

The depth of the well is 180 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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



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

[Download a presentation-quality graph](#)

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[Automated retrievals](#)

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[Data Tips](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

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: 2019-10-21 14:16:03 EDT

4.44 0.57 nadww02



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 (quarters are 1=NW 2=NE 3=SW 4=SE)
closed) (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 01668	CUB	ED		3	3	12	26S	28E		589957	3546554*	250	100	150
C 02160	CUB	ED		4	1	2	14	26S	28E	589243	3546044*	300	120	180
C 02160 S	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	300	120	180
C 02160 S2	CUB	ED		1	1	2	14	26S	28E	589043	3546244*	300	120	180
C 02160 S3	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S4	CUB	ED		2	2	1	14	26S	28E	588834	3546241*	300	120	180
C 02160 S5	CUB	ED		1	1	1	14	26S	28E	588225	3546237*	300	120	180
C 02160 S6	CUB	ED		3	3	1	14	26S	28E	588232	3545635*	300	120	180
C 02160 S7	CUB	ED		3	3	1	22	26S	28E	586638	3543998*	300	120	180
C 02160 S8	CUB	ED		2	3	3	12	26S	28E	590056	3546653*	200	120	80
C 02160 S9	CUB	ED		3	3	2	02	26S	28E	589020	3548868*	300	120	180
C 02477	CUB	ED		1	1	03	26S	28E		586687	3549347*	150		
C 02478	CUB	ED		2	1	05	26S	28E		583848	3549325*	100		
C 02479	CUB	ED		4	4	10	26S	28E		587909	3546534*	200		
C 02480	CUB	ED		4	4	10	26S	28E		587909	3546534*	150		
C 02481	CUB	ED		1	1	14	26S	28E		588326	3546138*	200		
C 02894	C	ED		2	2	3	12	26S	28E	590458	3547061*	240		
C 02924	C	ED		1	3	2	11	26S	28E	589032	3547451*			
C 04022 POD1	CUB	ED		4	4	2	15	26S	28E	588082	3545647	220	175	45
C 04022 POD2	CUB	ED		2	2	2	27	26S	28E	588106	3543082	250	145	105

*UTM location was derived from PLSS - see Help

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

Average Depth to Water: **124 feet**

Minimum Depth: **100 feet**

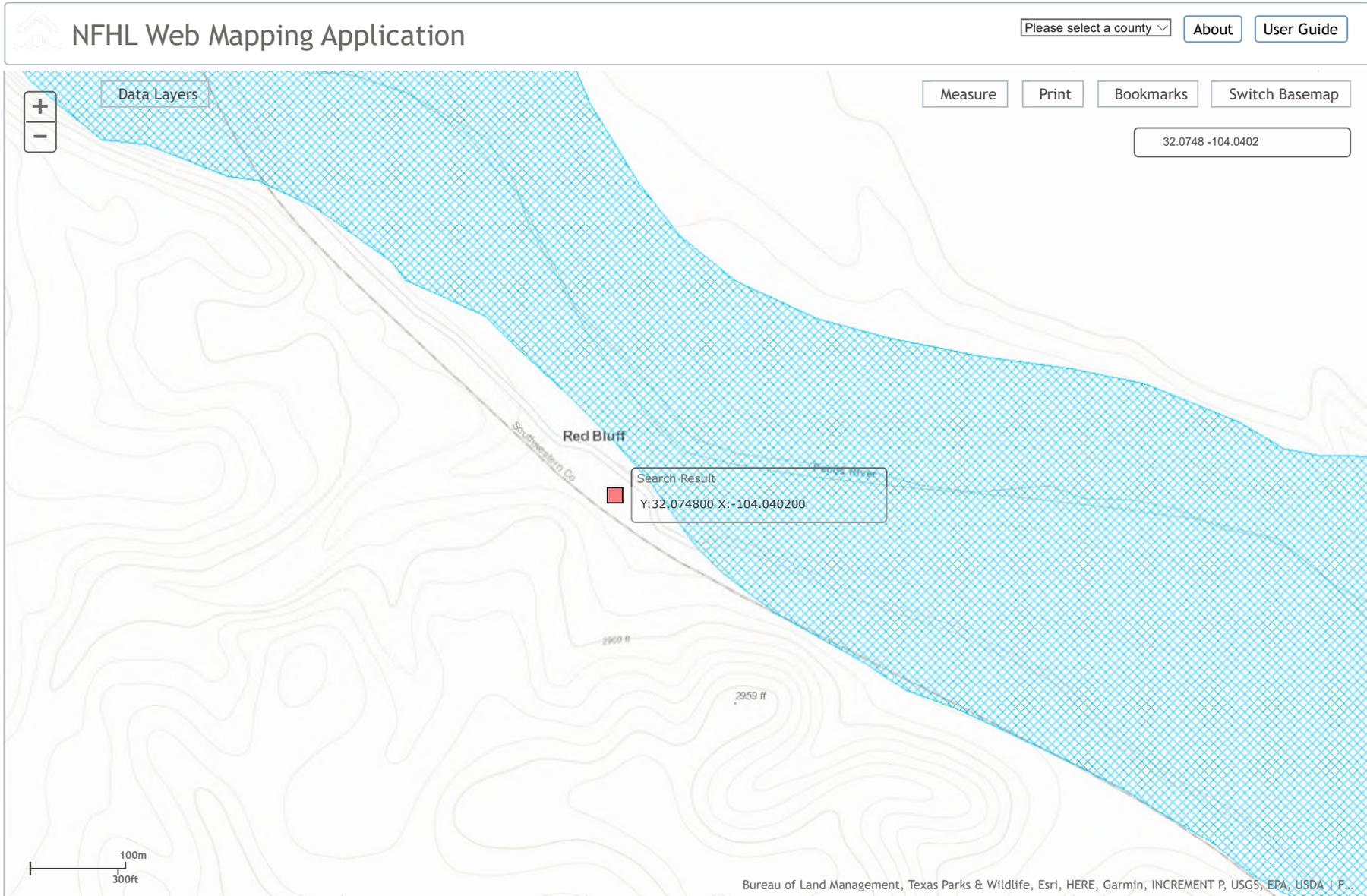
Maximum Depth: **175 feet**

Record Count: 20

PLSS Search:

Township: 26S

Range: 28E





Appendix C

Laboratory Reports

Analytical Report 631780

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Graham Shocker

212C-MD-01699

05-AUG-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

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)



05-AUG-19

Project Manager: **Clair Gonzales**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **631780**
Golden Graham Shocker
Project Address: Eddy County, New Mexico

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) 631780. 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. 631780 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer
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 631780

Tetra Tech- Midland, Midland, TX

Golden Graham Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal-1 (0-1')	S	07-22-19 00:00		631780-001
Horizontal-2 (0-1')	S	07-22-19 00:00		631780-002
Horizontal-3 (0-1')	S	07-22-19 00:00		631780-003



CASE NARRATIVE

Client Name: Tetra Tech- Midland
Project Name: Golden Graham Shocker

Project ID: 212C-MD-01699
Work Order Number(s): 631780

Report Date: 05-AUG-19
Date Received: 07/23/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3096823 BTEX by EPA 8021B

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

Batch: LBA-3097388 TPH By SW8015 Mod

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

Samples affected are: 631780-001,631780-003,631780-002.



Certificate of Analysis Summary 631780

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631780-001	631780-002	631780-003			
	<i>Field Id:</i>	Horizontal-1 (0-1')	Horizontal-2 (0-1')	Horizontal-3 (0-1')			
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Jul-22-19 00:00	Jul-22-19 00:00	Jul-22-19 00:00			
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 10:45	Jul-26-19 10:45	Jul-26-19 10:45			
	<i>Analyzed:</i>	Jul-27-19 11:24	Jul-27-19 11:44	Jul-27-19 12:04			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00397 0.00397			
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 09:45	Jul-24-19 09:45	Jul-24-19 09:45			
	<i>Analyzed:</i>	Jul-24-19 10:22	Jul-24-19 12:15	Jul-24-19 12:34			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		133 4.96	21600 249	3060 24.8			
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00	Jul-26-19 09:00	Jul-26-19 09:00			
	<i>Analyzed:</i>	Aug-02-19 11:28	Aug-02-19 12:37	Aug-02-19 13:00			
	<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			

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

Version: 1.9%

Jessica Kramer

Jessica Kramer
Project Assistant



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3096823

Sample: 631780-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 11:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096823

Sample: 631780-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 11:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3096823

Sample: 631780-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 12:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	70-130	
4-Bromofluorobenzene	0.0257	0.0300	86	70-130	

Lab Batch #: 3097388

Sample: 631780-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	99.9	88	70-135	
o-Terphenyl	32.1	50.0	64	70-135	**

Lab Batch #: 3097388

Sample: 631780-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:37

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.7	99.8	87	70-135	
o-Terphenyl	33.4	49.9	67	70-135	**

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	99.7	91	70-135	
o-Terphenyl	31.5	49.9	63	70-135	**

Lab Batch #: 3096823

Sample: 7682920-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 06:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	70-130	
4-Bromofluorobenzene	0.0298	0.0300	99	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	100	93	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 3096823

Sample: 7682920-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 04:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	70-130	
4-Bromofluorobenzene	0.0326	0.0300	109	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3096823

Sample: 7682920-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/27/19 04:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0289	0.0300	96	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3097388

Sample: 7683045-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 11:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3096823

Sample: 631753-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 05:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	70-130	
4-Bromofluorobenzene	0.0361	0.0300	120	70-130	

Lab Batch #: 3097388

Sample: 631780-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.6	92	70-135	
o-Terphenyl	38.5	49.8	77	70-135	

Lab Batch #: 3096823

Sample: 631753-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/27/19 05:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0363	0.0300	121	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631780,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.9	91	70-135	
o-Terphenyl	39.5	50.0	79	70-135	

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



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/27/2019

Lab Batch ID: 3096823

Sample: 7682920-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.101	101	0.100	0.104	104	3	70-130	35	
Toluene	<0.00200	0.100	0.0979	98	0.100	0.101	101	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.112	112	0.100	0.116	116	4	70-130	35	
m,p-Xylenes	<0.00400	0.200	0.229	115	0.200	0.237	119	3	70-130	35	
o-Xylene	<0.00200	0.100	0.110	110	0.100	0.114	114	4	70-130	35	

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096409

Sample: 7682652-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	246	98	250	246	98	0	90-110	20	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631780

Project ID: 212C-MD-01699

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097388

Sample: 7683045-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	988	99	1000	1000	100	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	979	98	1000	1060	106	8	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631780

Project ID: 212C-MD-01699

Lab Batch ID: 3096823

QC- Sample ID: 631753-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/27/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00201	0.100	0.0869	87	0.0994	0.0884	89	2	70-130	35	
Toluene	<0.00201	0.100	0.0774	77	0.0994	0.0755	76	2	70-130	35	
Ethylbenzene	<0.00201	0.100	0.0879	88	0.0994	0.0899	90	2	70-130	35	
m,p-Xylenes	<0.00402	0.201	0.174	87	0.199	0.178	89	2	70-130	35	
o-Xylene	<0.00201	0.100	0.0915	92	0.0994	0.0957	96	4	70-130	35	

Lab Batch ID: 3096409

QC- Sample ID: 631660-044 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	166	253	418	100	253	419	100	0	90-110	20	

Lab Batch ID: 3096409

QC- Sample ID: 631780-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	133	248	374	97	248	376	98	1	90-110	20	

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

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

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



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631780

Project ID: 212C-MD-01699

Lab Batch ID: 3097388

QC- Sample ID: 631780-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	12.2	996	1080	107	999	1080	107	0	70-135	20	
Diesel Range Organics (DRO)	13.4	996	1110	110	999	1120	111	1	70-135	20	

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

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

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



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 07/23/2019 11:01:00 AM

Work Order #: 631780

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	-6.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:
Katie Lowe

Date: 07/23/2019

Checklist reviewed by:
Jessica Kramer

Date: 07/23/2019

Analytical Report 631781

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Graham Shocker

212C-MD-01699

05-AUG-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

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)



05-AUG-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **631781**

Golden Graham Shocker

Project Address: Eddy County, New Mexico

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) 631781. 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. 631781 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 631781

Tetra Tech- Midland, Midland, TX

Golden Graham Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1')	S	07-22-19 00:00		631781-001
AH-1 (1'-1.5')	S	07-22-19 00:00		631781-002
AH-2 (0-1')	S	07-22-19 00:00		631781-007
AH-2 (1'-1.5')	S	07-22-19 00:00		631781-008
AH-3 (0-1')	S	07-22-19 00:00		631781-013
AH-3 (1'-1.5')	S	07-22-19 00:00		631781-014
AH-4 (0-1')	S	07-22-19 00:00		631781-015
AH-4 (1'-1.5')	S	07-22-19 00:00		631781-016
AH-5 (0-1')	S	07-22-19 00:00		631781-019
AH-5 (1'-1.5')	S	07-22-19 00:00		631781-020
AH-6 (0-1')	S	07-22-19 00:00		631781-023
AH-6 (1'-1.5')	S	07-22-19 00:00		631781-024
AH-7 (0-1')	S	07-22-19 00:00		631781-027
AH-7 (1'-1.5')	S	07-22-19 00:00		631781-028
AH-8 (0-1')	S	07-22-19 00:00		631781-031
AH-8 (1'-1.5')	S	07-22-19 00:00		631781-032
AH-9 (0-1')	S	07-22-19 00:00		631781-034
AH-9 (1'-1.5')	S	07-22-19 00:00		631781-035
AH-10 (0-1')	S	07-22-19 00:00		631781-038
AH-10 (1'-1.5')	S	07-22-19 00:00		631781-039
AH-11 (0-1')	S	07-22-19 00:00		631781-040
AH-12 (0-1')	S	07-22-19 00:00		631781-043
AH-12 (1'-1.5')	S	07-22-19 00:00		631781-044
AH-13 (0-1')	S	07-22-19 00:00		631781-046
AH-13 (1'-1.5')	S	07-22-19 00:00		631781-047
AH-14 (0-1')	S	07-22-19 00:00		631781-051
AH-14 (1'-1.5')	S	07-22-19 00:00		631781-052
AH-15 (0-1')	S	07-22-19 00:00		631781-055
AH-15 (1'-1.5')	S	07-22-19 00:00		631781-056
AH-16 (0-1')	S	07-22-19 00:00		631781-059
AH-16 (1'-1.5')	S	07-22-19 00:00		631781-060
AH-1 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-1 (3'-3.5')	S	07-22-19 00:00		Not Analyzed
AH-1 (4'-4.5')	S	07-22-19 00:00		Not Analyzed
AH-1 (5'-5.5')	S	07-22-19 00:00		Not Analyzed
AH-2 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-2 (3'-3.5')	S	07-22-19 00:00		Not Analyzed
AH-2 (4'-4.5')	S	07-22-19 00:00		Not Analyzed
AH-2 (5'-5.5')	S	07-22-19 00:00		Not Analyzed
AH-4 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-4 (3'-3.5')	S	07-22-19 00:00		Not Analyzed
AH-5 (2'-2.5')	S	07-22-19 00:00		Not Analyzed
AH-5 (3'-3.5')	S	07-22-19 00:00		Not Analyzed



Sample Cross Reference 631781

Tetra Tech- Midland, Midland, TX

Golden Graham Shocker

AH-6 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-6 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-7 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-7 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-8 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-9 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-9 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-11 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-11 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-12 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-13 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-13 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-13 (4'-4.5)	S	07-22-19 00:00	Not Analyzed
AH-14 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-14 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-15 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-15 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-16 (2'-2.5')	S	07-22-19 00:00	Not Analyzed
AH-16 (3'-3.5)	S	07-22-19 00:00	Not Analyzed
AH-16 (4'-4.5')	S	07-22-19 00:00	Not Analyzed
AH-16 (5'-5.5')	S	07-22-19 00:00	Not Analyzed



CASE NARRATIVE

Client Name: Tetra Tech- Midland
Project Name: Golden Graham Shocker

Project ID: 212C-MD-01699
Work Order Number(s): 631781

Report Date: 05-AUG-19
Date Received: 07/23/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3096939 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3096940 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 631781-040 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).
Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate.
Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 631781-040, -043, -044, -046, -047, -051, -052, -055, -056, -059, -060.
The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-001	631781-002	631781-007	631781-008	631781-013	631781-014
	<i>Field Id:</i>	AH-1 (0-1')	AH-1 (1'-1.5)	AH-2 (0-1')	AH-2 (1'-1.5)	AH-3 (0-1')	AH-3 (1'-1.5)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00					
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 15:30					
	<i>Analyzed:</i>	Jul-28-19 23:04	Jul-28-19 23:24	Jul-28-19 23:44	Jul-29-19 00:04	Jul-29-19 00:25	Jul-29-19 00:45
	<i>Units/RL:</i>	mg/kg RL					
	Benzene	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
	Toluene	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
	Ethylbenzene	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
	m,p-Xylenes	<0.00402 0.00402	<0.00402 0.00402	<0.00399 0.00399	<0.00402 0.00402	<0.00399 0.00399	<0.00400 0.00400
	o-Xylene	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	
Total BTEX	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 09:45					
	<i>Analyzed:</i>	Jul-24-19 12:41	Jul-24-19 12:47	Jul-24-19 12:53	Jul-24-19 13:00	Jul-24-19 13:06	Jul-24-19 13:12
	<i>Units/RL:</i>	mg/kg RL					
Chloride	3190 25.2	3950 50.1	4940 49.6	7020 49.9	2510 24.8	5620 50.3	
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00					
	<i>Analyzed:</i>	Aug-02-19 13:24	Aug-02-19 13:47	Aug-02-19 14:10	Aug-02-19 14:33	Aug-02-19 14:56	Aug-02-19 15:19
	<i>Units/RL:</i>	mg/kg RL					
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
	Diesel Range Organics (DRO)	<15.0 15.0	16.3 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	24.3 15.0
Motor Oil Range Hydrocarbons (MRO)	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Total TPH	<15.0 15.0	16.3 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	24.3 15.0	

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-015	631781-016	631781-019	631781-020	631781-023	631781-024
	<i>Field Id:</i>	AH-4 (0-1')	AH-4 (1'-1.5)	AH-5 (0-1')	AH-5 (1'-1.5)	AH-6 (0-1')	AH-6 (1'-1.5)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00					
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 15:30					
	<i>Analyzed:</i>	Jul-29-19 01:05	Jul-29-19 01:25	Jul-29-19 01:45	Jul-29-19 02:05	Jul-29-19 10:39	Jul-29-19 10:59
	<i>Units/RL:</i>	mg/kg RL					
	Benzene	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
	Toluene	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
	Ethylbenzene	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
	m,p-Xylenes	<0.00401 0.00401	<0.00400 0.00400	<0.00404 0.00404	<0.00401 0.00401	<0.00401 0.00401	<0.00402 0.00402
	o-Xylene	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	
Total BTEX	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 10:10					
	<i>Analyzed:</i>	Jul-24-19 11:40	Jul-24-19 12:01	Jul-24-19 12:07	Jul-24-19 12:23	Jul-24-19 12:28	Jul-24-19 10:46
	<i>Units/RL:</i>	mg/kg RL					
Chloride	5100 49.5	2820 25.2	1620 25.0	2620 24.9	9040 50.1	6430 50.5	
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00					
	<i>Analyzed:</i>	Aug-02-19 15:41	Aug-02-19 16:27	Aug-02-19 16:50	Aug-02-19 17:14	Aug-02-19 17:36	Aug-02-19 18:00
	<i>Units/RL:</i>	mg/kg RL					
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
	Diesel Range Organics (DRO)	<15.0 15.0	<15.0 15.0	<14.9 14.9	<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	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0
Total TPH	<15.0 15.0	<15.0 15.0	<14.9 14.9	<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 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-027	631781-028	631781-031	631781-032	631781-034	631781-035
	<i>Field Id:</i>	AH-7 (0-1')	AH-7 (1'-1.5)	AH-8 (0-1')	AH-8 (1'-1.5)	AH-9 (0-1')	AH-9 (1'-1.5)
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00					
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 15:30					
	<i>Analyzed:</i>	Jul-29-19 11:19	Jul-29-19 11:39	Jul-29-19 12:00	Jul-29-19 12:20	Jul-29-19 12:40	Jul-29-19 13:00
	<i>Units/RL:</i>	mg/kg RL					
	Benzene	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
	Toluene	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
	Ethylbenzene	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
	m,p-Xylenes	<0.00397 0.00397	<0.00401 0.00401	<0.00398 0.00398	<0.00397 0.00397	<0.00402 0.00402	<0.00398 0.00398
	o-Xylene	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	
Total BTEX	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201	<0.00199 0.00199	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 10:10					
	<i>Analyzed:</i>	Jul-24-19 10:52	Jul-24-19 10:57	Jul-24-19 11:02	Jul-24-19 11:19	Jul-24-19 11:24	Jul-24-19 11:29
	<i>Units/RL:</i>	mg/kg RL					
Chloride	167 5.05	608 49.7	460 25.0	410 5.00	3980 50.0	2010 25.1	
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 09:00	Jul-31-19 16:00				
	<i>Analyzed:</i>	Aug-02-19 18:23	Aug-02-19 18:46	Aug-02-19 19:09	Aug-02-19 19:32	Aug-02-19 19:55	Aug-01-19 04:44
	<i>Units/RL:</i>	mg/kg RL					
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0
	Diesel Range Organics (DRO)	147 15.0	37.1 15.0	<15.0 15.0	<14.9 14.9	16.2 15.0	<15.0 15.0
	Motor Oil Range Hydrocarbons (MRO)	27.5 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0
Total TPH	175 15.0	37.1 15.0	<15.0 15.0	<14.9 14.9	16.2 15.0	<15.0 15.0	

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	631781-038	631781-039	631781-040	631781-043	631781-044	631781-046
	Field Id:	AH-10 (0-1')	AH-10 (1'-1.5)	AH-11 (0-1')	AH-12 (0-1')	AH-12 (1'-1.5)	AH-13 (0-1')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Jul-22-19 00:00					
BTEX by EPA 8021B	Extracted:	Jul-26-19 15:30	Jul-26-19 15:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30	Jul-26-19 14:30
	Analyzed:	Jul-29-19 13:20	Jul-29-19 13:40	Jul-29-19 17:19	Jul-29-19 17:39	Jul-29-19 17:59	Jul-29-19 18:19
	Units/RL:	mg/kg RL					
	Benzene	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
	Toluene	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
	Ethylbenzene	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
	m,p-Xylenes	<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398	<0.00402 0.00402	<0.00397 0.00397	<0.00403 0.00403
	o-Xylene	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202
Total Xylenes	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202	
Total BTEX	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00198 0.00198	<0.00202 0.00202	
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-24-19 10:10	Jul-24-19 15:25				
	Analyzed:	Jul-24-19 11:35	Jul-24-19 12:33	Jul-24-19 12:39	Jul-24-19 12:49	Jul-24-19 12:55	Jul-24-19 18:22
	Units/RL:	mg/kg RL					
Chloride	14700 99.2	3690 24.8	5290 49.5	3720 25.3	3100 25.0	4250 49.7	
TPH By SW8015 Mod	Extracted:	Jul-26-19 15:00					
	Analyzed:	Aug-02-19 21:50	Aug-02-19 22:59	Aug-02-19 23:22	Aug-02-19 23:45	Aug-03-19 00:08	Aug-03-19 00:31
	Units/RL:	mg/kg RL					
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
	Diesel Range Organics (DRO)	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	
Total TPH	<15.0 15.0	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	631781-047	631781-051	631781-052	631781-055	631781-056	631781-059
	<i>Field Id:</i>	AH-13 (1'-1.5)	AH-14 (0-1')	AH-14 (1'-1.5)	AH-15 (0-1')	AH-15 (1'-1.5)	AH-16 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jul-22-19 00:00					
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-26-19 14:30					
	<i>Analyzed:</i>	Jul-29-19 18:39	Jul-29-19 18:59	Jul-29-19 19:19	Jul-29-19 19:39	Jul-29-19 20:00	Jul-29-19 20:20
	<i>Units/RL:</i>	mg/kg RL					
	Benzene	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
	Toluene	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
	Ethylbenzene	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
	m,p-Xylenes	<0.00399 0.00399	<0.00403 0.00403	<0.00402 0.00402	<0.00400 0.00400	<0.00401 0.00401	<0.00396 0.00396
	o-Xylene	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	
Total BTEX	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jul-24-19 15:25	Jul-24-19 15:25	Jul-24-19 15:25	Jul-24-19 10:10	Jul-24-19 10:10	Jul-24-19 15:25
	<i>Analyzed:</i>	Jul-24-19 18:28	Jul-24-19 18:33	Jul-24-19 18:38	Jul-24-19 10:30	Jul-24-19 11:45	Jul-24-19 18:44
	<i>Units/RL:</i>	mg/kg RL					
Chloride	2930 50.3	1450 5.04	2160 25.1	15.5 5.00	26.7 4.97	18.6 4.99	
TPH By SW8015 Mod	<i>Extracted:</i>	Jul-26-19 15:00					
	<i>Analyzed:</i>	Aug-03-19 00:54	Aug-03-19 01:17	Aug-03-19 01:40	Aug-03-19 02:03	Aug-03-19 02:49	Aug-03-19 03:11
	<i>Units/RL:</i>	mg/kg RL					
	Gasoline Range Hydrocarbons (GRO)	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
	Diesel Range Organics (DRO)	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
	Motor Oil Range Hydrocarbons (MRO)	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	<14.9 14.9
Total TPH	<14.9 14.9	<15.0 15.0	<15.0 15.0	<15.0 15.0	<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 631781

Tetra Tech- Midland, Midland, TX

Project Name: Golden Graham Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy County, New Mexico

Date Received in Lab: Tue Jul-23-19 11:01 am
Report Date: 05-AUG-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	631781-060				
	Field Id:	AH-16 (1'-1.5)				
	Depth:					
	Matrix:	SOIL				
	Sampled:	Jul-22-19 00:00				
BTEX by EPA 8021B	Extracted:	Jul-26-19 14:30				
	Analyzed:	Jul-29-19 21:38				
	Units/RL:	mg/kg RL				
	Benzene	<0.00201 0.00201				
	Toluene	<0.00201 0.00201				
	Ethylbenzene	<0.00201 0.00201				
	m,p-Xylenes	<0.00402 0.00402				
	o-Xylene	<0.00201 0.00201				
Total Xylenes	<0.00201 0.00201					
Total BTEX	<0.00201 0.00201					
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-24-19 15:25				
	Analyzed:	Jul-24-19 18:49				
	Units/RL:	mg/kg RL				
Chloride	153 4.99					
TPH By SW8015 Mod	Extracted:	Jul-26-19 15:00				
	Analyzed:	Aug-03-19 03:34				
	Units/RL:	mg/kg RL				
	Gasoline Range Hydrocarbons (GRO)	<15.0 15.0				
	Diesel Range Organics (DRO)	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)	<15.0 15.0					
Total TPH	<15.0 15.0					

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

Jessica Kramer
 Project Assistant



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 23:04

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0330	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 23:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0330	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 23:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0339	0.0300	113	70-130	

Lab Batch #: 3096939

Sample: 631781-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 00:04

SURROGATE RECOVERY STUDY

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

Lab Batch #: 3096939

Sample: 631781-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 00:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0317	0.0300	106	70-130	
4-Bromofluorobenzene	0.0340	0.0300	113	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 00:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0329	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 01:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0323	0.0300	108	70-130	
4-Bromofluorobenzene	0.0340	0.0300	113	70-130	

Lab Batch #: 3096939

Sample: 631781-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 01:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0348	0.0300	116	70-130	

Lab Batch #: 3096939

Sample: 631781-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 01:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0348	0.0300	116	70-130	

Lab Batch #: 3096939

Sample: 631781-020 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 02:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0335	0.0300	112	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 10:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0331	0.0300	110	70-130	

Lab Batch #: 3096939

Sample: 631781-024 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 10:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3096939

Sample: 631781-027 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 11:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3096939

Sample: 631781-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 11:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0317	0.0300	106	70-130	

Lab Batch #: 3096939

Sample: 631781-031 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 12:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0321	0.0300	107	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096939

Sample: 631781-032 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 12:20

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0320	0.0300	107	70-130	

Lab Batch #: 3096939

Sample: 631781-034 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 12:40

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

Lab Batch #: 3096939

Sample: 631781-035 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 13:00

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0336	0.0300	112	70-130	

Lab Batch #: 3096939

Sample: 631781-038 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 13:20

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0314	0.0300	105	70-130	

Lab Batch #: 3096939

Sample: 631781-039 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 13:40

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0321	0.0300	107	70-130	
4-Bromofluorobenzene	0.0313	0.0300	104	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096940

Sample: 631781-040 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 17:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0312	0.0300	104	70-130	

Lab Batch #: 3096940

Sample: 631781-043 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 17:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096940

Sample: 631781-044 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 17:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0322	0.0300	107	70-130	

Lab Batch #: 3096940

Sample: 631781-046 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 18:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0309	0.0300	103	70-130	

Lab Batch #: 3096940

Sample: 631781-047 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 18:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene	0.0347	0.0300	116	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096940

Sample: 631781-051 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 18:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

Lab Batch #: 3096940

Sample: 631781-052 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 19:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0329	0.0300	110	70-130	
4-Bromofluorobenzene	0.0337	0.0300	112	70-130	

Lab Batch #: 3096940

Sample: 631781-055 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 19:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3096940

Sample: 631781-056 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 20:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

Lab Batch #: 3096940

Sample: 631781-059 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 20:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0322	0.0300	107	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3096940

Sample: 631781-060 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 21:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0321	0.0300	107	70-130	

Lab Batch #: 3097150

Sample: 631781-035 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/01/19 04:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.9	111	70-135	
o-Terphenyl	48.7	50.0	97	70-135	

Lab Batch #: 3097388

Sample: 631781-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.9	114	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 3097388

Sample: 631781-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 13:47

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	100	97	70-135	
o-Terphenyl	42.4	50.0	85	70-135	

Lab Batch #: 3097388

Sample: 631781-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 14:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.0	99.6	95	70-135	
o-Terphenyl	41.2	49.8	83	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631781-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 14:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.9	99.9	94	70-135	
o-Terphenyl	37.5	50.0	75	70-135	

Lab Batch #: 3097388

Sample: 631781-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 14:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.7	95	70-135	
o-Terphenyl	38.6	49.9	77	70-135	

Lab Batch #: 3097388

Sample: 631781-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 15:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.9	99.8	98	70-135	
o-Terphenyl	46.7	49.9	94	70-135	

Lab Batch #: 3097388

Sample: 631781-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 15:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.2	100	94	70-135	
o-Terphenyl	40.5	50.0	81	70-135	

Lab Batch #: 3097388

Sample: 631781-016 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 16:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.4	99.7	94	70-135	
o-Terphenyl	46.6	49.9	93	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631781-019 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 16:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.6	95	70-135	
o-Terphenyl	41.7	49.8	84	70-135	

Lab Batch #: 3097388

Sample: 631781-020 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 17:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.1	99.9	95	70-135	
o-Terphenyl	42.0	50.0	84	70-135	

Lab Batch #: 3097388

Sample: 631781-023 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 17:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.3	100	95	70-135	
o-Terphenyl	39.8	50.0	80	70-135	

Lab Batch #: 3097388

Sample: 631781-024 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 18:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.7	99.8	97	70-135	
o-Terphenyl	47.6	49.9	95	70-135	

Lab Batch #: 3097388

Sample: 631781-027 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 18:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.3	99.7	98	70-135	
o-Terphenyl	44.9	49.9	90	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631781-028 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 18:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.8	99.9	95	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

Lab Batch #: 3097388

Sample: 631781-031 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 19:09

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.6	99.8	91	70-135	
o-Terphenyl	41.4	49.9	83	70-135	

Lab Batch #: 3097388

Sample: 631781-032 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 19:32

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.4	99.6	92	70-135	
o-Terphenyl	37.4	49.8	75	70-135	

Lab Batch #: 3097388

Sample: 631781-034 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 19:55

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.1	100	87	70-135	
o-Terphenyl	45.7	50.0	91	70-135	

Lab Batch #: 3097389

Sample: 631781-038 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 21:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.1	99.9	97	70-135	
o-Terphenyl	38.8	50.0	78	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097389

Sample: 631781-039 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 22:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.3	99.6	97	70-135	
o-Terphenyl	40.5	49.8	81	70-135	

Lab Batch #: 3097389

Sample: 631781-040 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 23:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	48.9	50.0	98	70-135	

Lab Batch #: 3097389

Sample: 631781-043 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 23:45

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.9	113	70-135	
o-Terphenyl	43.5	50.0	87	70-135	

Lab Batch #: 3097389

Sample: 631781-044 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 00:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	99.7	97	70-135	
o-Terphenyl	42.0	49.9	84	70-135	

Lab Batch #: 3097389

Sample: 631781-046 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 00:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	99.9	106	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097389

Sample: 631781-047 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 00:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.6	101	70-135	
o-Terphenyl	47.1	49.8	95	70-135	

Lab Batch #: 3097389

Sample: 631781-051 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 01:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	100	97	70-135	
o-Terphenyl	42.8	50.0	86	70-135	

Lab Batch #: 3097389

Sample: 631781-052 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 01:40

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.9	119	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3097389

Sample: 631781-055 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 02:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	100	104	70-135	
o-Terphenyl	47.7	50.0	95	70-135	

Lab Batch #: 3097389

Sample: 631781-056 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 02:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.7	104	70-135	
o-Terphenyl	45.8	49.9	92	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097389

Sample: 631781-059 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 03:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.6	99.6	98	70-135	
o-Terphenyl	44.9	49.8	90	70-135	

Lab Batch #: 3097389

Sample: 631781-060 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/03/19 03:34

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	104	99.8	104	70-135	
o-Terphenyl	52.6	49.9	105	70-135	

Lab Batch #: 3096939

Sample: 7682922-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/28/19 22:44

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3096940

Sample: 7682923-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/29/19 16:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0324	0.0300	108	70-130	

Lab Batch #: 3097150

Sample: 7683060-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/31/19 19:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	50.8	50.0	102	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 7683045-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:19

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.1	100	93	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 3097388

Sample: 7683058-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 20:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.2	100	99	70-135	
o-Terphenyl	40.6	50.0	81	70-135	

Lab Batch #: 3096939

Sample: 7682922-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/28/19 21:04

SURROGATE RECOVERY STUDY

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

Lab Batch #: 3096940

Sample: 7682923-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/29/19 14:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

Lab Batch #: 3097150

Sample: 7683060-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/31/19 19:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	57.5	50.0	115	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 7683045-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 10:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	38.7	50.0	77	70-135	

Lab Batch #: 3097388

Sample: 7683058-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 21:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	100	98	70-135	
o-Terphenyl	49.2	50.0	98	70-135	

Lab Batch #: 3096939

Sample: 7682922-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/28/19 21:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	70-130	
4-Bromofluorobenzene	0.0303	0.0300	101	70-130	

Lab Batch #: 3096940

Sample: 7682923-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/29/19 15:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0327	0.0300	109	70-130	

Lab Batch #: 3097150

Sample: 7683060-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 07/31/19 19:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	57.1	50.0	114	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 7683045-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 11:05

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3097388

Sample: 7683058-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 08/02/19 21:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	99.7	100	100	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

Lab Batch #: 3096939

Sample: 631781-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 21:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	70-130	
4-Bromofluorobenzene	0.0332	0.0300	111	70-130	

Lab Batch #: 3096940

Sample: 631781-040 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 15:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	70-130	
4-Bromofluorobenzene	0.0322	0.0300	107	70-130	

Lab Batch #: 3097150

Sample: 632385-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/31/19 20:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	156	199	78	70-135	
o-Terphenyl	73.4	99.7	74	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 11:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.6	99.6	92	70-135	
o-Terphenyl	38.5	49.8	77	70-135	

Lab Batch #: 3097389

Sample: 631781-038 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 22:13

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.2	99.7	97	70-135	
o-Terphenyl	47.7	49.9	96	70-135	

Lab Batch #: 3096939

Sample: 631781-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/28/19 22:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

Lab Batch #: 3096940

Sample: 631781-040 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/29/19 15:59

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0319	0.0300	106	70-130	
4-Bromofluorobenzene	0.0304	0.0300	101	70-130	

Lab Batch #: 3097150

Sample: 632385-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 07/31/19 21:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	155	199	78	70-135	
o-Terphenyl	75.6	99.7	76	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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



Form 2 - Surrogate Recoveries

Project Name: Golden Graham Shocker

Work Orders : 631781,

Project ID: 212C-MD-01699

Lab Batch #: 3097388

Sample: 631780-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 12:14

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	99.9	91	70-135	
o-Terphenyl	39.5	50.0	79	70-135	

Lab Batch #: 3097389

Sample: 631781-038 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 08/02/19 22:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.3	99.8	98	70-135	
o-Terphenyl	51.3	49.9	103	70-135	

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



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/28/2019

Lab Batch ID: 3096939

Sample: 7682922-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000385	0.100	0.103	103	0.100	0.102	102	1	70-130	35	
Toluene	<0.000456	0.100	0.0949	95	0.100	0.0930	93	2	70-130	35	
Ethylbenzene	<0.000565	0.100	0.0950	95	0.100	0.0924	92	3	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.192	96	0.200	0.186	93	3	70-130	35	
o-Xylene	0.000350	0.100	0.0982	98	0.100	0.0957	96	3	70-130	35	

Analyst: FOV

Date Prepared: 07/26/2019

Date Analyzed: 07/29/2019

Lab Batch ID: 3096940

Sample: 7682923-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00200	0.100	0.0928	93	0.100	0.104	104	11	70-130	35	
Toluene	<0.000456	0.100	0.0824	82	0.100	0.0934	93	13	70-130	35	
Ethylbenzene	0.000720	0.100	0.0807	81	0.100	0.0918	92	13	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.161	81	0.200	0.183	92	13	70-130	35	
o-Xylene	0.000480	0.100	0.0849	85	0.100	0.0977	98	14	70-130	35	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096409

Sample: 7682652-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	246	98	250	246	98	0	90-110	20	

Analyst: CHE

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096405

Sample: 7682654-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	250	100	250	248	99	1	90-110	20	

Analyst: SPC

Date Prepared: 07/24/2019

Date Analyzed: 07/24/2019

Lab Batch ID: 3096407

Sample: 7682713-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	263	105	250	259	104	2	90-110	20	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Golden Graham Shocker

Work Order #: 631781

Project ID: 212C-MD-01699

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097388

Sample: 7683045-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	988	99	1000	1000	100	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	979	98	1000	1060	106	8	70-135	20	

Analyst: ARM

Date Prepared: 07/26/2019

Date Analyzed: 08/02/2019

Lab Batch ID: 3097389

Sample: 7683058-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1100	110	1000	1110	111	1	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	1130	113	1000	1160	116	3	70-135	20	

Analyst: ARM

Date Prepared: 07/31/2019

Date Analyzed: 07/31/2019

Lab Batch ID: 3097150

Sample: 7683060-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	941	94	1000	848	85	10	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	1060	106	1000	1050	105	1	70-135	20	

Relative Percent Difference RPD = 200*(C-F)/(C+F)

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3096939

QC- Sample ID: 631781-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/28/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.0953	95	0.101	0.0960	95	1	70-130	35	
Toluene	<0.00200	0.100	0.0859	86	0.101	0.0858	85	0	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0841	84	0.101	0.0836	83	1	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.169	85	0.202	0.167	83	1	70-130	35	
o-Xylene	<0.00200	0.100	0.0884	88	0.101	0.0869	86	2	70-130	35	

Lab Batch ID: 3096940

QC- Sample ID: 631781-040 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/29/2019

Date Prepared: 07/26/2019

Analyst: FOV

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00202	0.101	0.0875	87	0.100	0.0789	79	10	70-130	35	
Toluene	<0.00202	0.101	0.0768	76	0.100	0.0687	69	11	70-130	35	X
Ethylbenzene	<0.00202	0.101	0.0740	73	0.100	0.0661	66	11	70-130	35	X
m,p-Xylenes	<0.00102	0.202	0.144	71	0.200	0.129	65	11	70-130	35	X
o-Xylene	<0.00202	0.101	0.0729	72	0.100	0.0654	65	11	70-130	35	X

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

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

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



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3096405

QC- Sample ID: 631781-055 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	15.5	250	263	99	250	262	99	0	90-110	20	

Lab Batch ID: 3096405

QC- Sample ID: 631781-056 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	26.7	249	277	101	249	276	100	0	90-110	20	

Lab Batch ID: 3096407

QC- Sample ID: 631753-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	10.1	251	272	104	251	267	102	2	90-110	20	

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

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

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



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3096407

QC- Sample ID: 631852-005 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1370	252	1570	79	252	1570	79	0	90-110	20	X

Lab Batch ID: 3096409

QC- Sample ID: 631660-044 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	166	253	418	100	253	419	100	0	90-110	20	

Lab Batch ID: 3096409

QC- Sample ID: 631780-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/24/2019

Date Prepared: 07/24/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	133	248	374	97	248	376	98	1	90-110	20	

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

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

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



Form 3 - MS / MSD Recoveries



Project Name: Golden Graham Shocker

Work Order # : 631781

Project ID: 212C-MD-01699

Lab Batch ID: 3097150

QC- Sample ID: 632385-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 07/31/2019

Date Prepared: 07/31/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	12.1	997	1030	102	997	1030	102	0	70-135	20	
Diesel Range Organics (DRO)	12.7	997	1130	112	997	1150	114	2	70-135	20	

Lab Batch ID: 3097388

QC- Sample ID: 631780-001 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	12.2	996	1080	107	999	1080	107	0	70-135	20	
Diesel Range Organics (DRO)	13.4	996	1110	110	999	1120	111	1	70-135	20	

Lab Batch ID: 3097389

QC- Sample ID: 631781-038 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 08/02/2019

Date Prepared: 07/26/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	10.3	997	1140	113	998	1140	113	0	70-135	20	
Diesel Range Organics (DRO)	12.9	997	1150	114	998	1190	118	3	70-135	20	

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

ANALYSIS REQUEST

6031781

(Circle or Specify Method No.)

Client Name: EOG Site Manager: Clair Gonzales

Project Name: Golden Graham Shocker

Project Location: (county, state) Eddy County, New Mexico

Project #: 212C-MD-01699

Invoice to: Accounts Payable
900 West Wall Street Suite 100 Midland, Texas 79701

Receiving Laboratory: Xenco Sampler Signature: Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

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			
	AH-5 (2'-2.5')		7/22/2019		X				X			1	N
	AH-5 (3'-3.5')		7/22/2019		X				X			1	N
	AH-6 (0-1')		7/22/2019		X				X			1	N
	AH-6 (1'-1.5')		7/22/2019		X				X			1	N
	AH-6 (2'-2.5')		7/22/2019		X				X			1	N
	AH-6 (3'-3.5')		7/22/2019		X				X			1	N
	AH-7 (0-1')		7/22/2019		X				X			1	N
	AH-7 (1'-1.5')		7/22/2019		X				X			1	N
	AH-7 (2'-2.5')		7/22/2019		X				X			1	N
	AH-7 (3'-3.5')		7/22/2019		X				X			1	N

Relinquished by: Date: 7/23/19 Time: 1101
 Relinquished by: Date: 7/23/19 Time: 1101
 Relinquished by: _____ Date: _____ Time: _____
 Received by: Date: 7/23/19 Time: 1101
 Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: 6.1/103

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Push Charges Authorized

Special Report Limits or TRRP Report

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

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

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

ANALYSIS REQUEST

031781

(Circle or Specify Method No.)

Client Name: EOG
 Project Name: Golden Graham Shocker
 Project Location: (county, state) Eddy County, New Mexico
 Project #: 212C-MD-01699
 Invoice to: Accounts Payable
 900 West Wall Street Suite 100 Midland, Texas 79701
 Receiving Laboratory: Xenco
 Sampler Signature: Devin Dominguez
 Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:	
		YEAR: 2019	DATE		TIME	WATER	SOIL	HCL	HNO ₃					ICE
	AH-8 (0-1')		7/22/2019		X						1	N	X	
	AH-8 (1'-1.5')		7/22/2019		X						1	N	X	
	AH-8 (2'-2.5')		7/22/2019		X						1	N	X	
	AH-9 (0-1')		7/22/2019		X						1	N	X	
	AH-9 (1'-1.5')		7/22/2019		X						1	N	X	
	AH-9 (2'-2.5')		7/22/2019		X						1	N	X	
	AH-9 (3'-3.5')		7/22/2019		X						1	N	X	
	AH-10 (0-1')		7/22/2019		X						1	N	X	
	AH-10 (1'-1.5')		7/22/2019		X						1	N	X	
	AH-11 (0-1')		7/22/2019		X						1	N	X	

Received by: [Signature] Date: 7/23/19 Time: 11:01
 Received by: [Signature] Date: 7/23/19 Time: 11:01
 Received by: [Signature] Date: 7/23/19 Time: 11:01

ORIGINAL COPY

LAB USE ONLY
 Sample Temperature: 10.1 / 10.3
 REMARKS:
 STANDARD
 RUSH: Same Day 24 hr 48 hr 72 hr
 Rush Charges Authorized
 Special Report Limits or TRRP Report

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

031781

ANALYSIS REQUEST

(Circle or Specify Method No.)

Client Name: **EOG** Site Manager: **Clair Gonzales**

Project Name: **Golden Graham Shocker**

Project Location: (county, state) **Eddy County, New Mexico** Project #: **212C-MD-01699**

Invoice to: **Accounts Payable**
900 West Wall Street Suite 100 Midland, Texas 79701

Receiving Laboratory: **Xenco** Sampler Signature: **Devin Dominguez**

Comments: **Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.**

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		DATE	TIME		WATER	SOIL	HCL	HNO ₃	ICE		
	AH-14 (0-1')	7/22/2019		X						1	N
	AH-14 (1'-1.5')	7/22/2019		X						1	N
	AH-14 (2-2.5')	7/22/2019		X						1	N
	AH-14 (3-3.5')	7/22/2019		X						1	N
	AH-15 (0-1')	7/22/2019		X						1	N
	AH-15 (1'-1.5')	7/22/2019		X						1	N
	AH-15 (2-2.5')	7/22/2019		X						1	N
	AH-15 (3-3.5')	7/22/2019		X						1	N
	AH-16 (0-1')	7/22/2019		X						1	N
	AH-16 (1'-1.5')	7/22/2019		X						1	N

Relinquished by: *[Signature]* Date: **7/23/19** Time: **1101**

Received by: *[Signature]* Date: **7/23** Time: **1101**

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: **6.1 / -6.3**

REMARKS: STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Flush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request Details:

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

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: EOG

Site Manager: Clair Gonzales

Project Name: Golden Graham Shocker

Project Location: (county, state) Eddy County, New Mexico

Project #:

212C-MD-01699

Invoice to: Accounts Payable
900 West Wall Street Suite 100 Midland, Texas 79701

Receiving Laboratory: Xenco

Sampler Signature: Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

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			
	AH-16 (2-2.5)	7/22/2019		X				X		1	N	
	AH-16 (3-3.5)	7/22/2019		X				X		1	N	
	AH-16 (4-4.5)	7/22/2019		X				X		1	N	
	AH-16 (5-5.5)	7/22/2019		X				X		1	N	

Disinquired by: _____ Date: _____ Time: _____
 Disinquired by: _____ Date: 7/23/19 Time: 1101
 Disinquired by: _____ Date: _____ Time: _____
 Received by: _____ Date: 7/23/19 Time: 1101
 Received by: _____ Date: _____ Time: _____

ORIGINAL COPY

(Circle or Specify Method No.)

6031781

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
 (Circle) HAND DELIVERED FEDEX UPS Tracking #: _____



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 07/23/2019 11:01:00 AM

Work Order #: 631781

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-6.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:
Katie Lowe

Date: 07/23/2019

Checklist reviewed by:
Jessica Kramer

Date: 07/23/2019

Analytical Report 637186

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Shocker

212C-MD-01699

19-SEP-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), North Carolina (681)

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-Tampa: Florida (E87429), North Carolina (483)



19-SEP-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **637186**

Golden Shocker

Project Address: Eddy Co, 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) 637186. 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. 637186 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'. The signature is written in a cursive, slightly slanted style.

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 637186

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Upstream	W	09-17-19 00:00		637186-001
Release	W	09-17-19 00:00		637186-002
Downstream	W	09-17-19 00:00		637186-003
Background #1	S	09-17-19 00:00	0 - 1 ft	637186-004
Background #2	S	09-17-19 00:00	0 - 1 ft	637186-005
Background #2	S	09-17-19 00:00	1 - 1.5 ft	637186-006
Background #3	S	09-17-19 00:00	0 - 1 ft	637186-007
Background #4	S	09-17-19 00:00	1 - 1.5 ft	637186-008
Background #5	S	09-17-19 00:00	0 - 1 ft	637186-009



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Golden Shocker

Project ID: 212C-MD-01699
Work Order Number(s): 637186

Report Date: 19-SEP-19
Date Received: 09/17/2019

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3101793 Inorganic Anions by EPA 300/300.1

Lab Sample ID 637186-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637186-004, -005, -006, -007, -008, -009.

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



Certificate of Analysis Summary 637186

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Eddy Co, NM

Date Received in Lab: Tue Sep-17-19 03:42 pm
Report Date: 19-SEP-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637186-001	637186-002	637186-003	637186-004	637186-005	637186-006
	<i>Field Id:</i>	Upstream	Release	Downstream	Background #1	Background #2	Background #2
	<i>Depth:</i>				0-1 ft	0-1 ft	1-1.5 ft
	<i>Matrix:</i>	WATER	WATER	WATER	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-17-19 00:00					
Inorganic Anions by EPA 300	<i>Extracted:</i>	Sep-17-19 18:09	Sep-17-19 18:09	Sep-17-19 18:09			
	<i>Analyzed:</i>	Sep-17-19 20:46	Sep-17-19 20:58	Sep-17-19 21:12			
	<i>Units/RL:</i>	mg/L RL	mg/L RL	mg/L RL			
Chloride		1500 25.0	1780 25.0	1610 25.0			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>				Sep-17-19 19:09	Sep-17-19 19:09	Sep-17-19 19:09
	<i>Analyzed:</i>				Sep-17-19 22:00	Sep-17-19 22:33	Sep-17-19 22:23
	<i>Units/RL:</i>				mg/kg RL	mg/kg RL	mg/kg RL
Chloride					3330 199	770 50.3	920 50.2

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
Project Assistant



Certificate of Analysis Summary 637186

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Eddy Co, NM

Date Received in Lab: Tue Sep-17-19 03:42 pm

Report Date: 19-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637186-007	637186-008	637186-009			
	<i>Field Id:</i>	Background #3	Background #4	Background #5			
	<i>Depth:</i>	0-1 ft	1-1.5 ft	0-1 ft			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Sep-17-19 00:00	Sep-17-19 00:00	Sep-17-19 00:00			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Sep-17-19 19:09	Sep-17-19 19:09	Sep-17-19 19:09			
	<i>Analyzed:</i>	Sep-17-19 22:30	Sep-17-19 23:11	Sep-17-19 22:38			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1780 49.5	1010 50.5	1620 98.2			

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
Project Assistant



BS / BSD Recoveries



Project Name: Golden Shocker

Work Order #: 637186

Project ID: 212C-MD-01699

Analyst: MAB

Date Prepared: 09/17/2019

Date Analyzed: 09/17/2019

Lab Batch ID: 3101788

Sample: 7686384-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.500	25.0	27.1	108	25.0	27.1	108	0	90-110	20	

Analyst: MAB

Date Prepared: 09/17/2019

Date Analyzed: 09/17/2019

Lab Batch ID: 3101793

Sample: 7686389-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<10.0	250	232	93	250	243	97	5	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Blank Spike Recovery [D] = 100*(C)/[B]

Blank Spike Duplicate Recovery [G] = 100*(F)/[E]

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Golden Shocker

Work Order # : 637186

Project ID: 212C-MD-01699

Lab Batch ID: 3101788

QC- Sample ID: 636933-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 09/17/2019

Date Prepared: 09/17/2019

Analyst: MAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9320	100000	123000	114	100000	124000	115	1	90-110	20	X

Lab Batch ID: 3101793

QC- Sample ID: 637186-004 S

Batch #: 1 **Matrix:** Soil

Date Analyzed: 09/17/2019

Date Prepared: 09/17/2019

Analyst: MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	3330	4010	8880	138	4020	8890	138	0	90-110	20	X

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

657-186

Client Name: EOG Site Manager: Clair Gonzales

Project Name: Golden Shocker

Project Location: (county, state) Eddy Co, NM Project #: 212C-MD-01699

Invoice to: EOG - James Kennedy

Receiving Laboratory: Xenco Sampler Signature: Conner Moehring

Comments:

Received by: *[Signature]* Date: 9/17/19 Time: 1542

Received by: *[Signature]* Date: 9/17/19 Time: 1542

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
	Upstream	9/17/2019		X				X			1 N	
	Release	9/17/2019		X				X			1 N	
	Downstream	9/17/2019		X				X			1 N	
	Background #1 (0-1')	9/17/2019		X				X			1 N	
	Background #2 (0-1')	9/17/2019		X				X			1 N	
	Background #2 (1-1.5')	9/17/2019		X				X			1 N	
	Background #3 (0-1')	9/17/2019		X				X			1 N	
	Background #3 (1-1.5')	9/17/2019		X				X			1 N	
	Background #4 (0-1')	9/17/2019		X				X			1 N	

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

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

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Flush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: 0.8

ORIGINAL COPY

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 09.17.2019 03.42.00 PM

Work Order #: 637186

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

Sample Receipt Checklist

Comments

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:


Elizabeth McClellan

Date: 09.17.2019

Checklist reviewed by:


Martha Castro

Date: 09.17.2019



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-001	637475-002	637475-003	637475-004	637475-005	637475-006
	<i>Field Id:</i>	AH10 (0-1')	AH10 (1-1.5')	AH10 (2-2.5')	AH10 (3-3.5')	AH17 (0-1')	AH17 (1-1.5')
	<i>Depth:</i>	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft	0-1 ft	1-1.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00					
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09					
	<i>Analyzed:</i>	Sep-20-19 11:35	Sep-20-19 11:55	Sep-20-19 12:02	Sep-20-19 12:08	Sep-20-19 12:15	Sep-20-19 12:21
	<i>Units/RL:</i>	mg/kg RL					
Chloride		1000 49.9	3000 199	3670 201	3800 198	894 98.8	2660 99.4

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-007	637475-008	637475-009	637475-010	637475-011	637475-012
	<i>Field Id:</i>	AH17 (2-2.5')	AH18 (0-1')	AH18 (1-1.5')	AH19 (0-1')	AH19 (1-1.5')	AH11 (0-1')
	<i>Depth:</i>	2-2.5 ft	0-1 ft	1-1.5 ft	0-1 ft	1-1.5 ft	0-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00	Sep-19-19 00:00				
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09					
	<i>Analyzed:</i>	Sep-20-19 12:28	Sep-20-19 12:34	Sep-20-19 12:54	Sep-20-19 13:00	Sep-20-19 13:07	Sep-20-19 13:27
	<i>Units/RL:</i>	mg/kg RL					
Chloride		1990 99.6	1470 99.6	521 98.6	2350 100	239 101	4950 496

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699
Contact: Clair Gonzales
Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm
Report Date: 25-SEP-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-013	637475-014	637475-015	637475-016	637475-017	637475-018
	<i>Field Id:</i>	AH11 (1-1.5')	AH11 (2-2.5')	AH11 (3-3.5')	AH11 (4-4.5')	AH12 (0-1')	AH12 (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>	Sep-19-19 00:00					
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09					
	<i>Analyzed:</i>	Sep-20-19 13:34	Sep-20-19 13:41	Sep-20-19 13:47	Sep-20-19 13:54	Sep-20-19 14:13	Sep-20-19 14:20
	<i>Units/RL:</i>	mg/kg RL					
Chloride		5680 491	2310 197	2430 98.6	1300 49.9	4400 198	3900 198

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-019	637475-020	637475-021	637475-022	637475-023	637475-024
	<i>Field Id:</i>	AH12 (2-2.5')	AH12 (3-3.5')	AH12 (4-4.5')	AH13 (0-1')	AH13 (1-1.5')	AH13 (2-2.5')
	<i>Depth:</i>	2-2.5 ft	3-3.5 ft	4-4.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-19-19 00:00					
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09					
	<i>Analyzed:</i>	Sep-20-19 14:26	Sep-20-19 15:14	Sep-20-19 15:35	Sep-20-19 15:44	Sep-20-19 15:51	Sep-20-19 15:58
	<i>Units/RL:</i>	mg/kg RL					
Chloride		2700 98.4	3170 201	1630 49.7	2630 99.6	2550 98.2	1970 201

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-025	637475-026	637475-027	637475-029	637475-030	637475-031
	<i>Field Id:</i>	AH13 (3-3.5')	AH13 (4-4.5')	AH13 (5-5.5')	AH5 (0-1')	AH5 (1-1.5')	AH5 (2-2.5')
	<i>Depth:</i>	3-3.5 ft	4-4.5 ft	5-5.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-19-19 00:00	Sep-19-19 00:00	Sep-19-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00	Sep-18-19 00:00
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09					
	<i>Analyzed:</i>	Sep-20-19 16:05	Sep-20-19 16:28	Sep-20-19 16:35	Sep-20-19 16:44	Sep-20-19 16:52	Sep-20-19 17:00
	<i>Units/RL:</i>	mg/kg RL					
Chloride		1560 101	1120 49.7	817 49.4	450 19.9	7550 199	1670 49.8

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-032	637475-033	637475-034	637475-035	637475-036	637475-037
	<i>Field Id:</i>	AH5 (3-3.5')	AH5 (4-4.5')	AH5 (5-5.5')	AH6 (0-1')	AH6 (1-1.5')	AH6 (2-2.5')
	<i>Depth:</i>	3-3.5 ft	4-4.5 ft	5-5.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00					
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09					
	<i>Analyzed:</i>	Sep-20-19 17:22	Sep-20-19 17:29	Sep-20-19 17:37	Sep-20-19 18:00	Sep-20-19 18:07	Sep-20-19 18:15
	<i>Units/RL:</i>	mg/kg RL					
Chloride		1120 50.0	2840 198	258 49.9	6200 98.4	2210 50.5	5010 202

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Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637475

Tetra Tech- Midland, Midland, TX

Project Name: Golden Shocker

Project Id: 212C-MD-01699

Contact: Clair Gonzales

Project Location: Lea, Co

Date Received in Lab: Thu Sep-19-19 04:40 pm

Report Date: 25-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637475-038	637475-039	637475-040	637475-041	637475-042	637475-043
	<i>Field Id:</i>	AH6 (3-3.5')	AH6 (4-4.5')	AH9 (0-1')	AH9 (1-1.5')	AH9 (2-2.5')	AH9 (3-3.5')
	<i>Depth:</i>	3-3.5 ft	4-4.5 ft	0-1 ft	1-1.5 ft	2-2.5 ft	3-3.5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-18-19 00:00					
Chloride by EPA 300	<i>Extracted:</i>	Sep-20-19 09:09	Sep-20-19 17:30				
	<i>Analyzed:</i>	Sep-20-19 18:21	Sep-20-19 18:59	Sep-20-19 19:19	Sep-20-19 19:27	Sep-20-19 19:33	Sep-20-19 19:41
	<i>Units/RL:</i>	mg/kg RL					
Chloride		597 50.1	4560 198	4300 200	2140 101	1120 50.3	3920 200

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Jessica Kramer
Project Assistant

Analytical Report 637475

for
Tetra Tech- Midland

Project Manager: Clair Gonzales

Golden Shocker

212C-MD-01699

25-SEP-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-21), 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-Tampa: Florida (E87429), North Carolina (483)



25-SEP-19

Project Manager: **Clair Gonzales**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **637475**

Golden Shocker

Project Address: Lea, Co

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) 637475. 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. 637475 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.

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Sample Cross Reference 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH10 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-001
AH10 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-002
AH10 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-003
AH10 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-004
AH17 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-005
AH17 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-006
AH17 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-007
AH18 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-008
AH18 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-009
AH19 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-010
AH19 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-011
AH11 (0-1')	S	09-19-19 00:00	0 - 1 ft	637475-012
AH11 (1-1.5')	S	09-19-19 00:00	1 - 1.5 ft	637475-013
AH11 (2-2.5')	S	09-19-19 00:00	2 - 2.5 ft	637475-014
AH11 (3-3.5')	S	09-19-19 00:00	3 - 3.5 ft	637475-015
AH11 (4-4.5')	S	09-19-19 00:00	4 - 4.5 ft	637475-016
AH12 (0-1')	S	09-19-19 00:00	0 - 1 ft	637475-017
AH12 (1-1.5')	S	09-19-19 00:00	1 - 1.5 ft	637475-018
AH12 (2-2.5')	S	09-19-19 00:00	2 - 2.5 ft	637475-019
AH12 (3-3.5')	S	09-19-19 00:00	3 - 3.5 ft	637475-020
AH12 (4-4.5')	S	09-19-19 00:00	4 - 4.5 ft	637475-021
AH13 (0-1')	S	09-19-19 00:00	0 - 1 ft	637475-022
AH13 (1-1.5')	S	09-19-19 00:00	1 - 1.5 ft	637475-023
AH13 (2-2.5')	S	09-19-19 00:00	2 - 2.5 ft	637475-024
AH13 (3-3.5')	S	09-19-19 00:00	3 - 3.5 ft	637475-025
AH13 (4-4.5')	S	09-19-19 00:00	4 - 4.5 ft	637475-026
AH13 (5-5.5')	S	09-19-19 00:00	5 - 5.5 ft	637475-027
AH5 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-029
AH5 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-030
AH5 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-031
AH5 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-032
AH5 (4-4.5')	S	09-18-19 00:00	4 - 4.5 ft	637475-033
AH5 (5-5.5')	S	09-18-19 00:00	5 - 5.5 ft	637475-034
AH6 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-035
AH6 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-036
AH6 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-037
AH6 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-038
AH6 (4-4.5')	S	09-18-19 00:00	4 - 4.5 ft	637475-039
AH9 (0-1')	S	09-18-19 00:00	0 - 1 ft	637475-040
AH9 (1-1.5')	S	09-18-19 00:00	1 - 1.5 ft	637475-041
AH9 (2-2.5')	S	09-18-19 00:00	2 - 2.5 ft	637475-042
AH9 (3-3.5')	S	09-18-19 00:00	3 - 3.5 ft	637475-043
AH12 (5-5.5')	S	09-19-19 00:00	5 - 5.5 ft	Not Analyzed

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Golden Shocker**Project ID: 212C-MD-01699
Work Order Number(s): 637475Report Date: 25-SEP-19
Date Received: 09/19/2019**Sample receipt non conformances and comments:**

Per clients email corrected sample names for Auger Holes. See below. NEW VERSION GENERATED JK 09/25/19

AH-14 change to AH-17

AH-15 change to AH-18

AH-16 change to AH-19

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3102121 Chloride by EPA 300

Lab Sample ID 637475-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637475-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

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

Batch: LBA-3102124 Chloride by EPA 300

Lab Sample ID 637475-031 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: 637475-020, -021, -022, -023, -024, -025, -026, -027, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038.

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

Batch: LBA-3102126 Chloride by EPA 300

Lab Sample ID 637542-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637475-039, -040, -041, -042, -043.

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



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH10 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-001	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1000	49.9	mg/kg	09.20.19 11.35		5



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH10 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-002	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3000	199	mg/kg	09.20.19 11.55		20



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH10 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-003	Date Collected: 09.18.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3670	201	mg/kg	09.20.19 12.02		20



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH10 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-004	Date Collected: 09.18.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3800	198	mg/kg	09.20.19 12.08		20



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH17 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-005	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	894	98.8	mg/kg	09.20.19 12.15		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH17 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-006	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2660	99.4	mg/kg	09.20.19 12.21		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH17 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-007	Date Collected: 09.18.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1990	99.6	mg/kg	09.20.19 12.28		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH18 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-008	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1470	99.6	mg/kg	09.20.19 12.34		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH18 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-009	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	521	98.6	mg/kg	09.20.19 12.54		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX Golden Shocker

Sample Id: AH19 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-010	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2350	100	mg/kg	09.20.19 13.00		10



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH19 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-011	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	239	101	mg/kg	09.20.19 13.07		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH11 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-012	Date Collected: 09.19.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4950	496	mg/kg	09.20.19 13.27		50



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH11 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-013	Date Collected: 09.19.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5680	491	mg/kg	09.20.19 13.34		50



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH11 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-014	Date Collected: 09.19.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2310	197	mg/kg	09.20.19 13.41		20



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Tetra Tech- Midland, Midland, TX Golden Shocker

Sample Id: AH11 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-015	Date Collected: 09.19.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2430	98.6	mg/kg	09.20.19 13.47		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH11 (4-4.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-016	Date Collected: 09.19.19 00.00	Sample Depth: 4 - 4.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1300	49.9	mg/kg	09.20.19 13.54		5



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Tetra Tech- Midland, Midland, TX Golden Shocker

Sample Id: AH12 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-017	Date Collected: 09.19.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4400	198	mg/kg	09.20.19 14.13		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH12 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-018	Date Collected: 09.19.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3900	198	mg/kg	09.23.19 12.01		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH12 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-019	Date Collected: 09.19.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102121		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2700	98.4	mg/kg	09.20.19 14.26		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH12 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-020	Date Collected: 09.19.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3170	201	mg/kg	09.20.19 15.14		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH12 (4-4.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-021	Date Collected: 09.19.19 00.00	Sample Depth: 4 - 4.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1630	49.7	mg/kg	09.20.19 15.35		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH13 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-022	Date Collected: 09.19.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2630	99.6	mg/kg	09.20.19 15.44		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH13 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-023	Date Collected: 09.19.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2550	98.2	mg/kg	09.20.19 15.51		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH13 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-024	Date Collected: 09.19.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1970	201	mg/kg	09.20.19 15.58		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH13 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-025	Date Collected: 09.19.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1560	101	mg/kg	09.20.19 16.05		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH13 (4-4.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-026	Date Collected: 09.19.19 00.00	Sample Depth: 4 - 4.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	49.7	mg/kg	09.20.19 16.28		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: **AH13 (5-5.5')**

Matrix: Soil

Date Received: 09.19.19 16.40

Lab Sample Id: 637475-027

Date Collected: 09.19.19 00.00

Sample Depth: 5 - 5.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 09.20.19 09.09

Basis: Wet Weight

Seq Number: 3102124

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	817	49.4	mg/kg	09.20.19 16.35		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH5 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-029	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	450	19.9	mg/kg	09.20.19 16.44		2



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH5 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-030	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7550	199	mg/kg	09.20.19 16.52		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH5 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-031	Date Collected: 09.18.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1670	49.8	mg/kg	09.20.19 17.00		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH5 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-032	Date Collected: 09.18.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	50.0	mg/kg	09.20.19 17.22		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH5 (4-4.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-033	Date Collected: 09.18.19 00.00	Sample Depth: 4 - 4.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2840	198	mg/kg	09.20.19 17.29		20



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Tetra Tech- Midland, Midland, TX Golden Shocker

Sample Id: AH5 (5-5.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-034	Date Collected: 09.18.19 00.00	Sample Depth: 5 - 5.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	258	49.9	mg/kg	09.20.19 17.37		5



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Tetra Tech- Midland, Midland, TX Golden Shocker

Sample Id: AH6 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-035	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6200	98.4	mg/kg	09.20.19 18.00		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH6 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-036	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2210	50.5	mg/kg	09.20.19 18.07		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH6 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-037	Date Collected: 09.18.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5010	202	mg/kg	09.20.19 18.15		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH6 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-038	Date Collected: 09.18.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 09.09	Basis: Wet Weight
Seq Number: 3102124		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	597	50.1	mg/kg	09.20.19 18.21		5



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH6 (4-4.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-039	Date Collected: 09.18.19 00.00	Sample Depth: 4 - 4.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 17.30	Basis: Wet Weight
Seq Number: 3102126		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4560	198	mg/kg	09.20.19 18.59		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH9 (0-1')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-040	Date Collected: 09.18.19 00.00	Sample Depth: 0 - 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 17.30	Basis: Wet Weight
Seq Number: 3102126		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4300	200	mg/kg	09.20.19 19.19		20



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH9 (1-1.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-041	Date Collected: 09.18.19 00.00	Sample Depth: 1 - 1.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 17.30	Basis: Wet Weight
Seq Number: 3102126		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2140	101	mg/kg	09.20.19 19.27		10



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Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH9 (2-2.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-042	Date Collected: 09.18.19 00.00	Sample Depth: 2 - 2.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 17.30	Basis: Wet Weight
Seq Number: 3102126		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	50.3	mg/kg	09.20.19 19.33		5



Certificate of Analytical Results 637475

Tetra Tech- Midland, Midland, TX

Golden Shocker

Sample Id: AH9 (3-3.5')	Matrix: Soil	Date Received: 09.19.19 16.40
Lab Sample Id: 637475-043	Date Collected: 09.18.19 00.00	Sample Depth: 3 - 3.5 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 09.20.19 17.30	Basis: Wet Weight
Seq Number: 3102126		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3920	200	mg/kg	09.20.19 19.41		20



Tetra Tech- Midland
Golden Shocker

Analytical Method: Chloride by EPA 300

Seq Number: 3102121

MB Sample Id: 7686564-1-BLK

Matrix: Solid

LCS Sample Id: 7686564-1-BKS

Prep Method: E300P

Date Prep: 09.20.19

LCSD Sample Id: 7686564-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	254	102	254	102	90-110	0	20	mg/kg	09.20.19 10:22	

Analytical Method: Chloride by EPA 300

Seq Number: 3102124

MB Sample Id: 7686566-1-BLK

Matrix: Solid

LCS Sample Id: 7686566-1-BKS

Prep Method: E300P

Date Prep: 09.20.19

LCSD Sample Id: 7686566-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	258	103	257	103	90-110	0	20	mg/kg	09.20.19 15:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3102126

MB Sample Id: 7686566-1-BLK

Matrix: Solid

LCS Sample Id: 7686566-1-BKS

LCSD Sample Id: 7686566-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	259	104	258	103	90-110	0	20	mg/kg	09.20.19 18:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3102121

Parent Sample Id: 637475-001

Matrix: Soil

MS Sample Id: 637475-001 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1000	994	2250	126	2260	127	90-110	0	20	mg/kg	09.20.19 11:42	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102121

Parent Sample Id: 637475-011

Matrix: Soil

MS Sample Id: 637475-011 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	239	2000	2440	110	2430	110	90-110	0	20	mg/kg	09.20.19 13:14	

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

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

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

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



Tetra Tech- Midland
Golden Shocker

Analytical Method: Chloride by EPA 300

Seq Number: 3102124

Parent Sample Id: 637475-020

Matrix: Soil

MS Sample Id: 637475-020 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3170	4040	7910	117	8300	127	90-110	5	20	mg/kg	09.20.19 15:21	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102124

Parent Sample Id: 637475-031

Matrix: Solid

MS Sample Id: 637475-031 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1670	1980	3270	81	3330	83	90-110	2	20	mg/kg	09.20.19 17:08	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102126

Parent Sample Id: 637475-039

Matrix: Soil

MS Sample Id: 637475-039 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637475-039 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4560	3930	9400	123	9600	127	90-110	2	20	mg/kg	09.20.19 19:06	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102126

Parent Sample Id: 637542-004

Matrix: Solid

MS Sample Id: 637542-004 S

Prep Method: E300P

Date Prep: 09.20.19

MSD Sample Id: 637542-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1430	998	2780	135	2840	142	90-110	2	20	mg/kg	09.20.19 20:47	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. = $\text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result
MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Analysis Request of Custody Record



Tetra Tech, Inc.

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

437-475
 Page 1 of 5

Client Name: **EOG** Site Manager: **Clair Gonzalez**

Project Name: **Golden-Shocker**

Project Location: **Lea, CO** Project #: **212C-MD-01699**

Invoice to: **EOG - James Kennedy**

Receiving Laboratory: **Xanco** Sampler Signature: **Devon Dominguez & Tony Lagarda**

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					
	AH 10	0-1												
	AH 10	1-1.5	9/19/19		X			X						
	AH 10	2-2.5												
	AH 10	3-3.5												
	AH 14	0-1'												
	AH 14	1-1.5'												
	AH 14	2-2.5'												
	AH 15	0-1'												
	AH 15	1-1.5'												
	AH 16	0-1'												

Inquired by: **Indiano E. Tucker** Date: **9/19/19** Time: **1640**
 Received by: **[Signature]** Date: **9/19/19** Time: **1640**

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

LAB USE ONLY
 Sample Temperature: **5.0**

REMARKS:
 STANDARD
 RUSH: Same Day 24 hr 48 hr **(72 hr)**
 Flush Charges Authorized
 Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

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Fax (432) 682-3946

637475
Page 2 of 5

Client Name: **EOG**

Site Manager: **Clain Gonzalez**

Project Name: **Golden-Shocker**

Project #: **212C-MD-01699**

Project Location: **Lea, CO**

Invoice to: **EOG - James Kennedy**

Receiving Laboratory: **Xenco**

Sampler Signature: **Devon Dominguez & Tony Bogard**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	YEAR: 2019	TIME	WATER	SOIL	HCL	HNO ₃		
	AH 16	1-1.5'	9/18/19			X		X		N
	AH 11	0-1'	9/19/19			X		X		N
	AH 11	1-1.5'				X		X		N
	AH 11	2-2.5'				X		X		N
	AH 11	3-3.5'				X		X		N
	AH 11	4-4.5'				X		X		N
	AH 12	0-1'				X		X		N
	AH 12	1-1.5'				X		X		N
	AH 12	2-2.5'				X		X		N
	AH 12	3-3.5'				X		X		N

Received by: **Matt E. Tucker** Date: **9/19/19** Time: **16:40**

Received by: **[Signature]** Date: **9/19/19** Time: **16:40**

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

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr **72hr**

Rush Charges Authorized

Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: **EOG** Site Manager: **Clair Gonzalez**

Project Name: **Golden-Shocker**

Project Location: **Lea, CO** Project #: **212C-MD-01699**

Invoice to: **EOG - James Kennedy**

Receiving Laboratory: **Xenco** Sampler Signature: **Devon Dominguez & Tony Lagarda**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
	AH 12	4-4.5'	9/19/19		X		X		N
	AH 13	0-1'							
	AH 13	1-1.5'							
	AH 13	2-2.5'							
	AH 13	3-3.5'							
	AH 13	4-4.5'							
	AH 13	5-5.5'							
	AH 12	5-5.5'							
	AH 5	0-1'							
	AH 5	1-1.5'	9/18/19						

Received by: **[Signature]** Date: **9/19/19** Time: **16:40**

Received by: **[Signature]** Date: **9/19/19** Time: **10:40**

LAB USE ONLY: **5.0**

REMARKS: STANDARD RUSH: Same Day 24 hr 48 hr **72hr**

Push 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

034475
Page 3 of 5

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page

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037-495

Client Name: **EOG** Site Manager: **Clair Gonzalez**

Project Name: **Golden-Shocker**

Project Location: **Lea, CO** Project #: **212C-MD-01699**

Invoice to: **EOG - James Kennedy**

Receiving Laboratory: **XanCO** Sampler Signature: **Devon Dominguez & Tony Lagarda**

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		
AH S	2-2.5'	9/18/19		X				X	1	N
AH S	3-3.5'								1	N
AH S	4-4.5'								1	N
AH S	5-5.5'								1	N
AH G	0-1'								1	N
AH G	1-1.5'								1	N
AH G	2-2.5'								1	N
AH G	3-3.5'								1	N
AH G	4-4.5'								1	N
AH G	0-1'								1	N

Inquired by: **Matthew E. Shaker** Date: **9/19/19** Time: **1640**
 Received by: **[Signature]** Date: **9/19/19** Time: **1640**

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

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

037475
Page 5 of 5

Client Name:

EOG

Site Manager:

Clain Gonzalez

Project Name:

Golden-Shocker

Project Location:

Lea, Co

Project #:

212C-MD-01699

Invoice to:

EOG - James Kennedy

Sampler Signature:

Devon Dominguez & Tony Lagarda

Comments:

Xanco

LAB #
(LAB USE ONLY)

SAMPLE IDENTIFICATION

YEAR: 2019	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
	9/18/19		X	X		X	X		1	N
	9/18/19		X	X		X	X		1	N
	9/18/19		X	X		X	X		1	N

Requested by:	Date:	Time:	Received by:	Date:	Time:
Mark E. Foyd	9/19/19	10:40	[Signature]	9/19/19	10:40
Requested 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

LAB USE ONLY

Sample Temperature: 5.0

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY



Client: Tetra Tech- Midland

Date/ Time Received: 09/19/2019 04:40:00 PM

Work Order #: 637475

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

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

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 09/19/2019

Checklist reviewed by:

Jessica Kramer

Date: 09/20/2019



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

May 19, 2022

EZEQUIEL MORENO FLORES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: GOLDEN GRAHAM TO SHOCKER

Enclosed are the results of analyses for samples received by the laboratory on 05/16/22 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 1 (0-6") (H222077-01)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.2 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 2 (0-6") (H222077-02)

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	05/17/2022	ND	2.03	102	2.00	1.96		
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81		
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50		
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15		
Total BTEX	<0.300	0.300	05/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97		
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423		
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND						

Surrogate: 1-Chlorooctane 89.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: H - 3 (0-6") (H222077-03)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BG - 1 (0-1') (H222077-04)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BG - 2 (0-1') (H222077-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (0-1') (H222077-06)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (1-1.5') (H222077-07)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/17/2022	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	05/17/2022	ND	194	96.8	200	1.97	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	184	91.9	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (2-2.5') (H222077-08)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	QM-07
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.8 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (3-3.5') (H222077-09)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.2 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 1 (4-4.5') (H222077-10)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.9 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (0-1') (H222077-11)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (1-1.5') (H222077-12)

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	05/17/2022	ND	2.03	102	2.00	1.96	
Toluene*	<0.050	0.050	05/17/2022	ND	2.03	101	2.00	1.81	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	1.93	96.6	2.00	1.50	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.01	100	6.00	1.15	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (2-2.5') (H222077-13)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (3-3.5') (H222077-14)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.7 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 2 (4-4.5') (H222077-15)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (0-1') (H222077-16)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 76.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (1-1.5') (H222077-17)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (2-2.5') (H222077-18)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (3-3.5') (H222077-19)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 84.6 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 3 (4-4.5') (H222077-20)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (0-1') (H222077-21)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (1-1.5') (H222077-22)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (2-2.5') (H222077-23)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (3-3.5') (H222077-24)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 94.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 4 (4-4.5') (H222077-25)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (0-1') (H222077-26)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136

Surrogate: 1-Chlorooctadecane 135 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (1-1.5') (H222077-27)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/17/2022	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	05/17/2022	ND	192	96.1	200	5.46	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	183	91.4	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 98.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (2-2.5') (H222077-28)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 5 (3-3.5') (H222077-29)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (0-1') (H222077-30)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (1-1.5') (H222077-31)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (2-2.5') (H222077-32)

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	05/18/2022	ND	2.03	101	2.00	3.93	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	3.08	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.92	95.9	2.00	3.85	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	5.92	98.6	6.00	3.96	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 6 (3-3.5') (H222077-33)

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	05/17/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/17/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (0-1') (H222077-34)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4680	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (1-1.5') (H222077-35)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	05/17/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 7 (2-2.5') (H222077-36)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	05/18/2022	ND	416	104	400	0.00	QM-07

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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (0-1') (H222077-37)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/18/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (1-1.5') (H222077-38)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	05/18/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (2-2.5') (H222077-39)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	05/18/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 91.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 8 (3-3.5') (H222077-40)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	05/18/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (0-1') (H222077-41)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/18/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (1-1.5') (H222077-42)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	05/18/2022	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	05/17/2022	ND	186	92.9	200	0.600	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	196	98.0	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 9 (2-2.5') (H222077-43)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/18/2022	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	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (0-1') (H222077-44)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	05/18/2022	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	05/19/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (1-1.5') (H222077-45)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	05/18/2022	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	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 10 (2-2.5') (H222077-46)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/18/2022	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	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 79.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (0-1') (H222077-47)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	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	05/18/2022	ND	189	94.3	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	228	114	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (1-1.5') (H222077-48)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 119 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (2-2.5') (H222077-49)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (3-3.5') (H222077-50)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 11 (4-4.5') (H222077-51)

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	05/18/2022	ND	2.11	105	2.00	2.58	
Toluene*	<0.050	0.050	05/18/2022	ND	2.08	104	2.00	2.55	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.05	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.37	106	6.00	2.82	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (0-1') (H222077-52)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (1-1.5') (H222077-53)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/17/2022	ND	191	95.4	200	3.25		
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86		
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND						

Surrogate: 1-Chlorooctane 137 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (2-2.5') (H222077-54)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 130 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (3-3.5') (H222077-55)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/18/2022	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	05/17/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/17/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/17/2022	ND					

Surrogate: 1-Chlorooctane 132 % 66.9-136

Surrogate: 1-Chlorooctadecane 137 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 12 (4-4.5') (H222077-56)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 125 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (0-1') (H222077-57)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 139 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (1-1.5') (H222077-58)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/17/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/17/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/17/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25		
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86		
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND						

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 143 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (2-2.5') (H222077-59)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 124 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (3.3.5') (H222077-60)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 133 % 66.9-136

Surrogate: 1-Chlorooctadecane 136 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 13 (4-4.5') (H222077-61)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (0-1') (H222077-62)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (1-1.5') (H222077-63)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (2-2.5') (H222077-64)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25		
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86		
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND						

Surrogate: 1-Chlorooctane 140 % 66.9-136

Surrogate: 1-Chlorooctadecane 157 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (3-3.5') (H222077-65)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 126 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 14 (4-4.5') (H222077-66)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 120 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (0-1') (H222077-67)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	191	95.4	200	3.25	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	192	95.8	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 124 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (1-1.5') (H222077-68)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	9.90	
Toluene*	<0.050	0.050	05/18/2022	ND	2.13	106	2.00	11.1	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.12	106	2.00	9.20	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.49	108	6.00	10.0	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (2-2.5') (H222077-69)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 99.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (3-3.5') (H222077-70)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 15 (4-4.5') (H222077-71)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (0-1') (H222077-72)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (1-1.5') (H222077-73)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (2-2.5') (H222077-74)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (3-3.5') (H222077-75)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/18/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/12/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 16 (4-4.5') (H222077-76)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (0-1') (H222077-77)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 67.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 69.4 % 59.5-142

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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
 EZEQUIEL MORENO FLORES
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (1-1.5') (H222077-78)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 17 (2-2.5') (H222077-79)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 77.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (0-1') (H222077-80)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 76.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (1-1.5') (H222077-81)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	05/18/2022	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	05/19/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 18 (2-2.5') (H222077-82)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (0-1') (H222077-83)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.6 % 59.5-142

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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (1-1.5') (H222077-84)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 117 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/16/2022	Sampling Date:	05/13/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	GOLDEN GRAHAM TO SHOCKER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: AH - 19 (2-2.5') (H222077-85)

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	05/18/2022	ND	2.07	103	2.00	4.61	
Toluene*	<0.050	0.050	05/18/2022	ND	2.03	101	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	1.99	99.5	2.00	3.70	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.17	103	6.00	3.19	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	05/18/2022	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	05/18/2022	ND	201	100	200	1.34	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	210	105	200	7.21	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: Ezequiel Moreno
 Project Name: Golden Graham to Shocker
 e.morenoflores@tetratech.com
 (432)488-7433
 Project Location: Eddy County
 Project #: Pending
 Invoice to: James Kennedy
 Receiving Laboratory: Cardinal Labs
 Sampler Signature: Ezequiel Moreno
 Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		YEAR	2020							
1	H-1 (0-6")			5/13/2022		X				BTEX 8021B BTEX 8260B
2	H-2 (0-6")			5/12/2022		X				TPH TX1005 (Ext to C35)
3	H-3 (0-6")			5/12/2022		X				TPH 8015M (GRO - DRO - ORO - MRO)
4	BG-1 (0-1')			5/13/2022		X				PAH 8270C
5	BG-2 (0-1')			5/12/2022		X				Total Metals Ag As Ba Cd Cr Pb Se Hg
6	AH-1 (0-1')			5/13/2022		X				TCLP Metals Ag As Ba Cd Cr Pb Se Hg
7	AH-1 (1-1.5')			5/13/2022		X				TCLP Volatiles
8	AH-1 (2-2.5')			5/13/2022		X				TCLP Semi Volatiles
9	AH-1 (3-3.5')			5/13/2022		X				RCI
10	AH-1 (4-4.5')			5/13/2022		X				GC/MS Vol. 8260B / 624
										GC/MS Semi. Vol. 8270C/625
										PCB's 8082 / 608
										NORM
										PLM (Asbestos)
										Chloride
										Chloride Sulfate TDS
										General Water Chemistry (see attached list)
										Anion/Cation Balance
										Hold

ORIGINAL COPY

Reinquished by: [Signature] Date: 5/10/22 Time: 1050
 Received by: [Signature] Date: 5/16/22 Time: 1830

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
 4.9°C
 6.0.5°C
 4.4°C #1/3

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 662-4559
Fax (432) 662-3949

Client Name: EOG		Site Manager: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.morenofores@tetratech.com	
Project Location: Eddy County		Project #: Pending	
Invoice to: James Kennedy		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
31	AH-6 (1-1.5)	5/13/2022		X				X	
32	AH-6 (2-2.5)	5/13/2022		X				X	
33	AH-6 (3-3.5)	5/13/2022		X				X	
34	AH-7 (0-1)	5/13/2022		X				X	
35	AH-7 (1-1.5)	5/13/2022		X				X	
36	AH-7 (2-2.5)	5/13/2022		X				X	
37	AH-8 (0-1)	5/13/2022		X				X	
38	AH-8 (1-1.5)	5/13/2022		X				X	
39	AH-8 (2-2.5)	5/13/2022		X				X	
40	AH-8 (3-3.5)	5/13/2022		X				X	

Reinquisitioned by: [Signature]	Date: 5/16/22	Time: 1650	Received by: [Signature]	Date: 5/16/22	Time: 1650
Reinquisitioned by: [Signature]	Date: [Blank]	Time: [Blank]	Received by: [Signature]	Date: [Blank]	Time: [Blank]

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

Sample Temperature: 4.9°C	LAB USE ONLY
4.9°C	
4.9°C	
4.9°C	

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

(Circle) HAND DELIVERED FEDEX UPS Tracking #

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: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.morenoflores@tetratech.com (432)488-7433	
Project Location: Eddy County		Project #: Pending	
Invoice to: James Kennedy		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			None
41	AH-9 (0-1')	5/13/2022		X							
42	AH-9 (1-1.5')	5/13/2022		X							
43	AH-9 (2-2.5')	5/13/2022		X							
44	AH-10 (0-1')	5/13/2022		X							
45	AH-10 (1-1.5')	5/13/2022		X							
46	AH-10 (2-2.5')	5/13/2022		X							
47	AH-11 (0-1')	5/12/2022		X							
48	AH-11 (1-1.5')	5/12/2022		X							
49	AH-11 (2-2.5')	5/12/2022		X							
50	AH-11 (3-3.5')	5/12/2022		X							

Retinquished by: <i>Yegor</i>	Date: 5/16/22	Time: 1650	Received by: <i>Ezequiel Moreno</i>	Date: 5-16-22	Time: 1650
Retinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> STANDARD	
<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

Sample Temperature	49.8
	2-D.O.S.E
	4.44c #118

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

ANALYSIS REQUEST
(Circle or Specify Method No.)

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: Ezequiel Moreno
 Project Name: Golden Graham to Shocker
 Project #: e.morenoflores@tetratech.com (432)488-7433
 Project Location: Eddy County
 Project #: Pending
 Invoice to: James Kennedy
 Receiving Laboratory: Cardinal Labs
 Sampler Signature: Ezequiel Moreno
 Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
51	AH-11 (4-4.5')	5/12/2022		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
52	AH-12 (0-1')	5/12/2022		X				X			
53	AH-12 (1-1.5')	5/12/2022		X				X			
54	AH-12 (2-2.5')	5/12/2022		X				X			
55	AH-12 (3-3.5')	5/12/2022		X				X			
56	AH-12 (4-4.5')	5/12/2022		X				X			
57	AH-13 (0-1')	5/12/2022		X				X			
58	AH-13 (1-1.5')	5/12/2022		X				X			
59	AH-13 (2-2.5')	5/12/2022		X				X			
60	AH-13 (3-3.5')	5/12/2022		X				X			

Retinquired by: [Signature] Date: 5/10/22 Time: 1058 Received by: [Signature] Date: 5/10/22 Time: 1650
 Retinquired by: [Signature] Date: [] Time: [] Received by: [Signature] Date: [] Time: []
 Retinquired by: [Signature] Date: [] Time: [] Received by: [Signature] 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

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
 Project Name: Golden Graham to Shocker
 Project Location: Eddy County
 Project #: e.morenoflores@tetratech.com
 (432)488-7433
 Invoice to: James Kennedy
 Receiving Laboratory: Cardinal Labs
 Site Manager: Ezequiel Moreno
 Project #: Pending
 Sampler Signature: Ezequiel Moreno
 Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
71	AH-15 (4-4.5')	5/12/2022		X				X			BTEX 8021B BTEX 8260B
72	AH-16 (0-1')	5/12/2022		X				X			TPH TX1005 (Ext to C35)
73	AH-16 (1-1.5')	5/12/2022		X				X			TPH 8015M (GRO - DRO - ORO - MRO)
74	AH-16 (2-2.5')	5/12/2022		X				X			PAH 8270C
75	AH-16 (3-3.5')	5/12/2022		X				X			Total Metals Ag As Ba Cd Cr Pb Se Hg
76	AH-16 (4-4.5')	5/12/2022		X				X			TCLP Metals Ag As Ba Cd Cr Pb Se Hg
77	AH-17 (0-1')	5/13/2022		X				X			TCLP Volatiles
78	AH-17 (1-1.5')	5/13/2022		X				X			TCLP Semi Volatiles
79	AH-17 (2-2.5')	5/13/2022		X				X			RCI
80	AH-18 (0-1')	5/13/2022		X				X			GC/MS Vol. 8260B / 624
											GC/MS Semi. Vol. 8270C/625
											PCB's 8082 / 608
											NORM
											PLM (Asbestos)
											Chloride
											Chloride Sulfate TDS
											General Water Chemistry (see attached list)
											Anion/Cation Balance
											Hold

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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: 4.9°C, 0-8.5°C, 4.4°C #113

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Analysis Request of Custody Record



Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 982-3946

Client Name: EOG		Site Manager: Ezequiel Moreno	
Project Name: Golden Graham to Shocker		e.morenoflores@tetratech.com	
Project Location: Eddy County		(432)488-7433	
Invoice to: James Kennedy		Project #: Pending	
Receiving Laboratory: Cardinal Labs		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
81	AH-18 (1-1.5')	5/13/2022		X				X			BTEX 8021B BTEX 8260B
82	AH-18 (2-2.5')	5/13/2022		X				X			TPH TX1005 (Ext to C35)
83	AH-19 (0-1')	5/13/2022		X				X			TPH 8015M (GRO - DRO - ORO - MRO)
84	AH-19 (1-1.5')	5/13/2022		X				X			PAH 8270C
85	AH-19 (2-2.5')	5/13/2022		X				X			Total Metals Ag As Ba Cd Cr Pb Se Hg
											TCLP Metals Ag As Ba Cd Cr Pb Se Hg
											TCLP Volatiles
											TCLP Semi Volatiles
											RCI
											GC/MS Vol. 8260B / 624
											GC/MS Semi. Vol. 8270C/625
											PCB's 8082 / 608
											NORM
											PLM (Asbestos)
											Chloride
											Chloride Sulfate TDS
											General Water Chemistry (see attached list)
											Anion/Cation Balance
											Hold

Relinquished by: [Signature]	Date: 5/16/22	Time: 1050	Received by: [Signature]	Date: 5/16/22	Time: 1050
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY

REMARKS: STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: 4.9°C

4.4°C #1/5

ORIGINAL COPY

Incident ID	NAB1910935399
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: James F. Kennedy Title: Environmental Specialist
 Signature: James F Kennedy Date: 7-1-22
 email: James_Kennedy@eogresources.com Telephone: 432-258-4346

OCD Only

Received by: Robert Hamlet Date: 4/19/2023

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Robert Hamlet Date: 4/19/2023

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 147710

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 147710
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. The release will need to be remediated to the strictest closure criteria from Table 1 of the OCD Spill Rule. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. Confirmation samples should be collected every 200 ft2. The background criteria of 3,330 mg/kg is not accepted. All background samples should be collected in 1-foot increments down to the depth equivalent to the deepest depth of the excavation, which in this case appears to be roughly 4 to 5 feet. The four background numbers at a depth of 1 foot should be averaged. The four background numbers at a depth of 2 feet should be averaged and so on. The composite numbers will be used for the final background numbers.	4/19/2023