

Report Type: Closure Report 2RP-5464

General Site Information:

Site:	Sibyl #1 Fed Com #1					
Company:	EOG Resources					
Section, Township and Range	Unit H	Sec 01	T 18S	R 30E		
County:	Eddy County					
GPS:	32.778010			-103.920353		
Surface Owner:	Federal					
Directions:	From the intersection of Lovington HWY & CR 222, travel south on CR 222 for 2.40 miles, turn west onto lease road for 2.23 miles, turn south for 0.30 miles to location.					

Release Data:

Date Released:	5/16/2019
Type Release:	Oil & Produced Water
Source of Contamination:	Vent line
Fluid Released:	1 bbl oil & 6 bbl water
Fluids Recovered:	1 bbl oil & 5 bbl water

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

Site Characterization

Depth to Groundwater:	80'
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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



May 7, 2021

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

**Re: Closure Report for the EOG Resources, Sibyl #1 Federal Com #1, Unit H, Section 01, Township 18 South, Range 30 East, Eddy County, New Mexico.
2RP-5464
NAB1915140568**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to supervise the remediation of a release that occurred at the Sibyl #1 Federal Com #1, Unit H, Section 01, Township 18 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.778010°, -103.920353°. 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 May 16, 2019. The release was caused by the well flowing up through the tubing into the separator and out the vent pipe. Approximately 1 barrel of oil and 6 barrels of produced water were released and approximately 1 barrel of oil and 5 barrels of produced water were recovered. The release impacted an area in the pasture measuring approximately 140' x 35' and 65' x 35'. A copy of the C-141 Form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is located in a low karst potential area. No water wells were listed within Section 01 on the New Mexico Office of the State Engineer's (NMOSE) database, the Geology and Groundwater Resources of Eddy County (Report 3), or the USGS National Water Information Database. The nearest well is listed on the NMOSE data base in Section 20, Township 17 South, Range 30 East, approximately 4.92 miles northwest of the site and has a reported depth to groundwater of 80 feet below surface. The groundwater data is shown in Appendix B.

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. 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 based on the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment

On June 5, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of eight (8) auger holes (AH-1 through AH-8) were installed in the release area to total depths ranging from 2-2.5' to 5-5.5' below surface. Soil samples were collected and 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 release area and sample locations are shown on Figure 3.

Referring to Table 1, all samples showed benzene, total BTEX, and chloride concentrations below the RRALs. However, the areas of AH-1, AH-5, AH-6, AH-7 and AH-8 showed a shallow TPH impact at 0-1' below surface, which declined with depth to below the RRALs at 1'-1.5' below surface.

At Risk Remediation Activities

On July 11, 2019 through July 17, 2019, Tetra Tech personnel were onsite to supervise the remediation activities. The areas of AH-1, AH-5, AH-6, and AH-7 were excavated to depths between 1.5'-2.0' below surface. Composite confirmation samples were collected every 200 square feet for a total of twenty bottom hole samples (Bottom Hole 1 through Bottom Hole 20) and eleven sidewall samples (North Sidewall 1, North Sidewall 2, East Sidewall 1, East Sidewall 2, East Sidewall 3, South Sidewall 1, South Sidewall 2, South Sidewall 3, West Sidewall 1, West Sidewall 2, and West Sidewall 3). Soil samples were collected and 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 excavation areas and depths are shown on Figure 4.

Referring to Table 1, all final confirmation samples with the exception of bottom hole (BH-6) collected showed benzene, total BTEX, TPH, and chloride concentrations below the RRALs. The area of bottom hole (BH-6), showed a TPH concentration of 144.2 mg/kg, at a depth of 2.0' below surface, this exceedance wasn't realized until April of 2021. Tetra Tech resampled the area of bottom hole (BH-6) with a 5 point composite sample at 2.0'-2.5' below surface. The sample collected showed benzene, total BTEX, TPH, and chloride concentrations below RRAL, showing natural attenuation over time.

**TETRA TECH**

Approximately 660 cubic yards of contaminated soil was transported offsite for proper disposal and the areas were backfilled with clean material to surface grade.

Conclusion

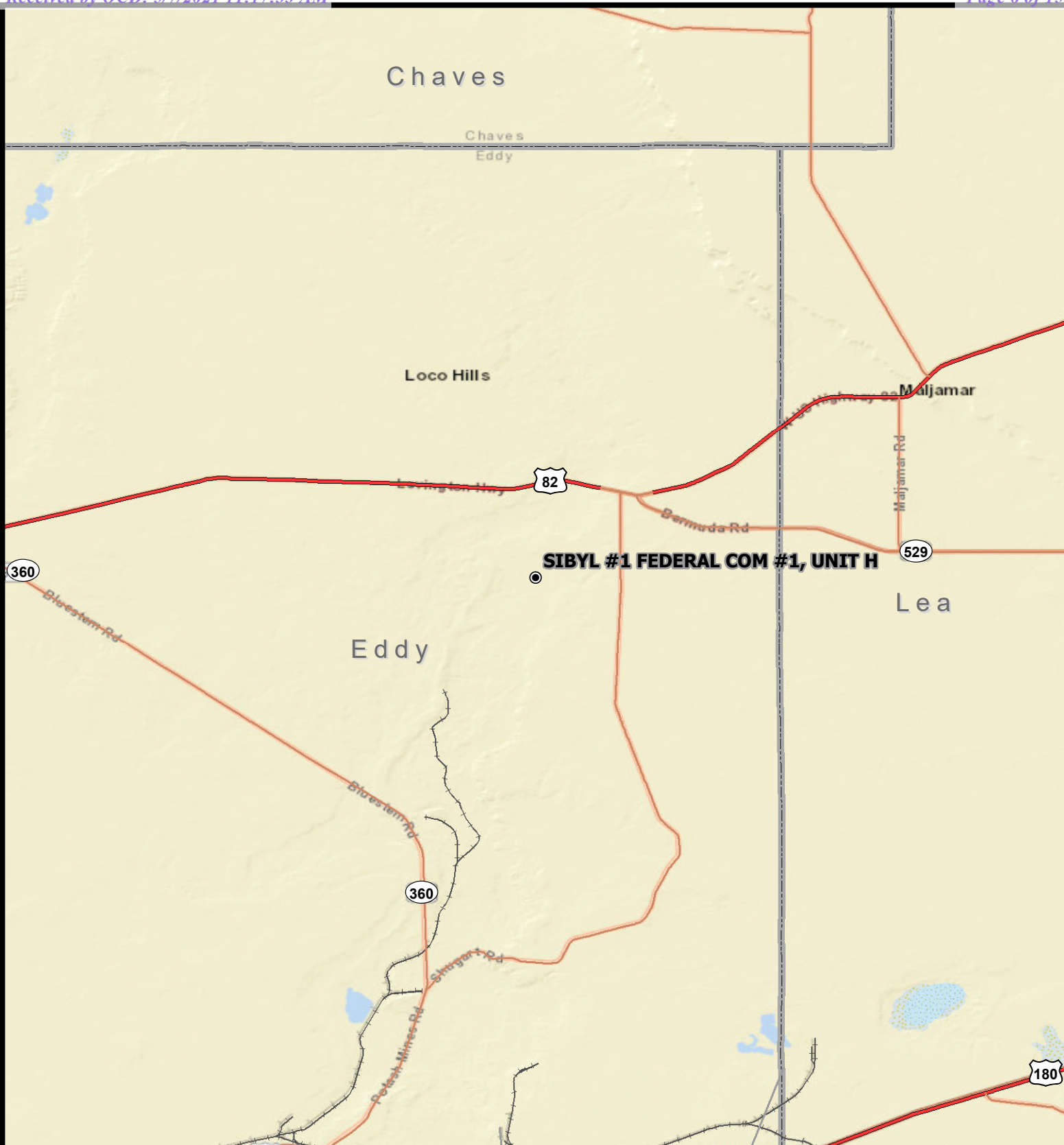
Based on the remediation activities performed and laboratory data, EOG requests closure of this spill issue. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

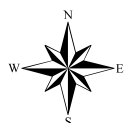
Brittany Long,
Project Manager

Clair Gonzales, P.G.
Senior Project Manager

Figures



● SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet

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



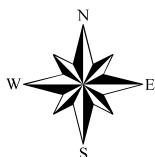
OVERVIEW MAP
SIBYL #1 FEDERAL COM #1 UNIT H
Property Located at 32.778011°,-103.920353°
EDDY COUNTY, NEW MEXICO



FIGURE
1



● SITE LOCATION

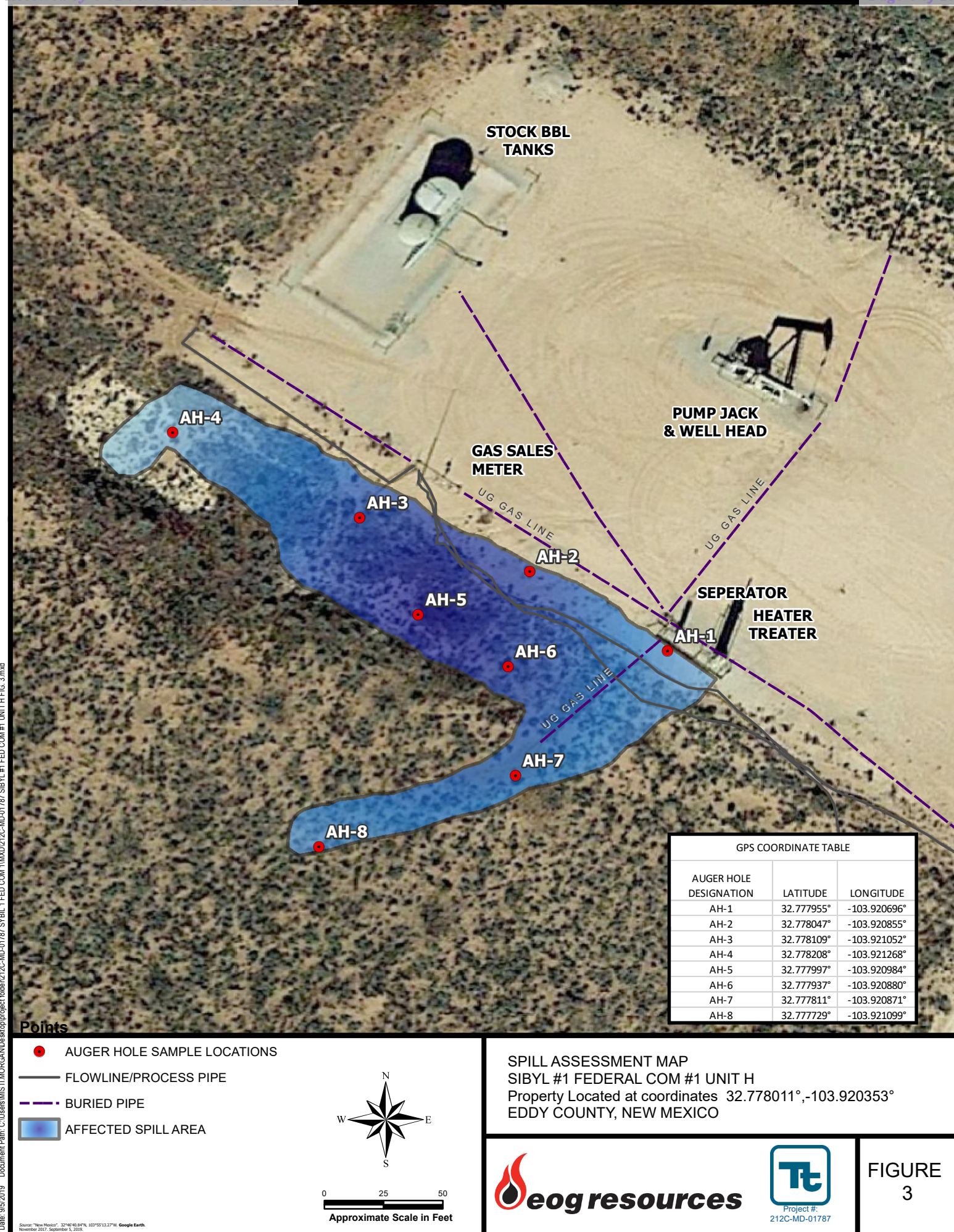


0 1,000 2,000
Approximate Scale in Feet

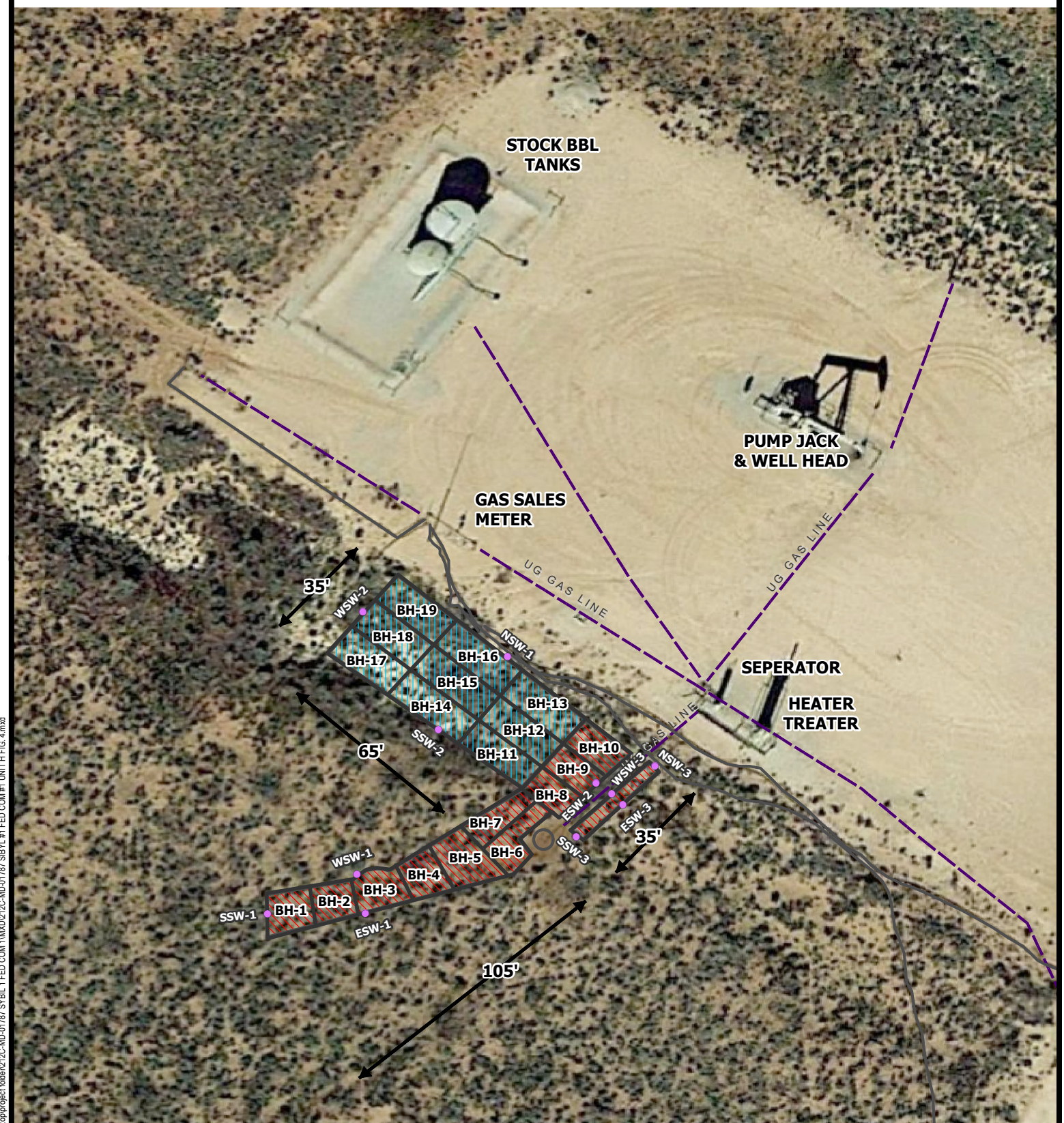
TOPOGRAPHIC MAP
SIBYL #1 FEDERAL COM #1 UNIT H
Property Located at 32.778011°,-103.920353°
EDDY COUNTY, NEW MEXICO



FIGURE
2



Date: 9/5/2019 Document Path: C:\Users\MIST\MORGAN\Desktop\project folder\212C-MD-01787 SYBL 1 FED COM #1 UNIT H FIG. 4.mxd



BH BOTTOMHOLE SAMPLE LOCATIONS

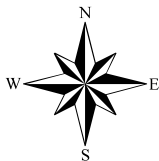
● SIDEWALL SAMPLE LOCATIONS

— FLOWLINE/PROCESS PIPE

— BURIED PIPE

1.5' EXCAVATED DEPTH AREA

2.0' EXCAVATED DEPTH AREA



0 25 50
Approximate Scale in Feet

EXCAVATION AREA & DEPTH MAP

SIBYL #1 FEDERAL COM #1 UNIT H

Property Located at coordinates 32.778011°, -103.920353°
EDDY COUNTY, NEW MEXICO



FIGURE
4

Tables

Table 1
EOG
Sibyl #1 Fed Com #1
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
AH-1	6/5/2019	0-1	2.0	X		<15.0	108	<15.0	108	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	50.8
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	0.00228	0.00271	0.00499	<5.02
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	<5.00
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.99
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.96
	"	5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.97
AH-2	6/5/2019	0-1	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.00
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.97
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.99
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.96
AH-3	6/5/2019	0-1	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	47.6
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	143
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.97
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	<5.03
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.98
	"	5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	11.9
AH-4	6/5/2019	0-1	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.98
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.96
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.96
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	<5.02
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	<5.03
	"	5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.96
AH-5	6/5/2019	0-1	2.0	X		<14.9	135	<14.9	135	<0.00202	<0.00202	0.00265	0.00743	0.0101	9.09
	"	1-1.5	2.0	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	0.00200	0.00210	0.00410	5.10
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	<4.99
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	21.5
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	15.9
	"	5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	52.6
AH-6	6/5/2019	0-1	2.0	X		<15.0	114	<15.0	114	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	15.1
	"	1-1.5	2.0	X		<15.0	24.3	<15.0	24.3	<0.00200	<0.00200	0.00200	0.00210	0.00410	<5.00
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	53.6
AH-7	6/5/2019	0-1	2.0	X		<15.0	1,260	107	1,370	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	29.5
	"	1-1.5	2.0	X		<15.0	296	43.8	340	<0.00200	<0.00200	0.00200	0.00210	0.00410	95.7
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	33.9
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	162
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	125
	"	5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	120
AH-8	6/5/2019	0-1	2.0	X		<15.0	1,650	115	1,770	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	16.7
	"	1-1.5	2.0	X		<15.0	61.6	<15.0	61.6	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	35.1
	"	2-2.5	2.0	X		-	-	-	-	-	-	-	-	-	224
	"	3-3.5	2.0	X		-	-	-	-	-	-	-	-	-	175
	"	4-4.5	2.0	X		-	-	-	-	-	-	-	-	-	52.6
	"	5-5.5	2.0	X		-	-	-	-	-	-	-	-	-	12.0

Table 1
EOG
Sibyl #1 Fed Com #1
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
Bottom Hole 1	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 2	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0
Bottom Hole 3	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 4	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0
Bottom Hole 5	7/16/2019	-	2.0	X		<10.0	17.3	<10.0	17.3	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 6	7/16/2019	-	2.0	X		<10.0	121	23.2	144.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	5/3/2021	-	2.0-2.5	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19.3
Bottom Hole 7	7/16/2019	-	2.0	X		<10.0	77.7	19.4	97.1	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 8	7/16/2019	-	2.0	X		<10.0	38.9	<10.0	38.9	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 9	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 10	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 11	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 12	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 13	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 14	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 15	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 16	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 17	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 18	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 19	7/16/2019	-	1.5	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 20	7/16/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16
NSW - 1	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
NSW - 2	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SSW - 1	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SSW - 2	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SSW - 3	7/16/2019	-	-	X		<10.0	22.8	<10.0	22.8	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
ESW - 1	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
ESW - 2	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
ESW - 3	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160.0
WSW - 1	7/16/2019	-	-	X		<10.0	65.7	17.8	<0.050	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
WSW - 2	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
WSW - 3	7/16/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0

(-) Not Analyzed
Exceedance

Photos

EOG Sibyl #1 Fed Com #1

Eddy County, New Mexico



TETRA TECH



Facing South, viewing impacted pasture area



Facing North, viewing spill source, and impacted pasture

EOG Sibyl #1 Fed Com #1

Eddy County, New Mexico



TETRA TECH



Facing East, viewing impacted pasture



Facing West, viewing impacted area on the pad

EOG Sibyl #1 Fed Com #1
Eddy County, New Mexico



Facing north, viewing excavated area in the pasture



Facing West, viewing excavated area in the pasture

EOG Sibyl #1 Fed Com #1

Eddy County, New Mexico



TETRA TECH



Facing south, viewing excavated area in the pasture



Facing East, viewing excavated area in the pasture

Appendix A

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAB1915140568
District RP	2RP-5464
Facility ID	
Application ID	pAB1915140325

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) NAB1915140568
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.777970°

Longitude -103.920616°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Sibyl #1 Fed Com #1	Site Type EOG Facility
Date Release Discovered 5/16/19	API# (if applicable) 30-015-31276

Unit Letter	Section	Township	Range	County
H	1	18S	30E	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 1
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 6	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The well flowed up the tubing, into the separator and out of the vent line. The casing was shut in. Approximately 7 bbls of produced water and oil were released from the vent line and 6 bbls was recovered.

Incident ID	NAB1915140568
District RP	2RP-5464
Facility ID	
Application ID	pAB1915140325

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>5-30-19</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Amalia Bustamante</u> Date: <u>5/31/2019</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<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: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
EOG - SIBYL #1 FED Com #1
Eddy County, New Mexico

17 South 29 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 76	23	24
30	29 210	28	27	26	25
31	32	33	34	35	36
				153	

17 South 30 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20 80	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

17 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
			271		

18 South 29 East

6	5	4	3	2	1
7	8	9	10 95	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
				158	

18 South 30 East

6	5	4	3	2	1 SITE
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 266	22 202	23	24
30	29	28	27	26 184	25
31	32 161	33	34	35	36

18 South 31 East

6	5	4	3	2	1 454
7	8	9	10	11	12 434
18	17	16	15	14 377	13 400
19	20	21	22	23 317	24
30	29	28	27	26	25
31	32	33	34	35 261	36
				261	

19 South 29 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 123
19	20	21	22	23	24 101
30	29	28	27	26	25
31	32	33	34 62'	35 121	36
			60	110	115

19 South 30 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
90					65
115					

19 South 31 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
180	29	28	27	26	25
30	29	28	27	26	25
31	32	33 101	34	35	36
		140			130

- 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
- 123** Tetra Tech installed temporary wells and field water level
- 143** NMOCD Groundwater map well location

USGS
Conservation
Science

National Water Information System: Mapper

SitesMap

Search

Search by Street Address:
32.778010 -103.920353

Search by Place Name:
Enter Placename

Search by Site Number(s):
Enter Site Number(s)

Search by State/Territory:
Select an Area

Search by Watershed Region:
Select a Region


Surface-Water Sites

Groundwater Sites

Springs

Atmospheric Sites

Other Sites



Site Information



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00767 POD1	CP	ED		3	2	35	18S	30E		599300	3619158*	500		
CP 00818 POD1	CP	LE		1	4	26	18S	30E		599289	3620364*	240		
CP 00819 POD1	CP	LE		2	4	32	18S	30E		594878	3618720*	150		
CP 00853 POD1	O	CP	ED	2	4	28	18S	30E		596472	3620340*	350		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

PLSS Search:

Township: 18S

Range: 30E

*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.

7/24/19 8:45 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



[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 =

- 324502103495801

Minimum number of levels = 1

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

USGS 324502103495801 18S.31E.14.22133

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°45'02", Longitude 103°49'58" NAD27

Land-surface elevation 3,736 feet above NAVD88

The depth of the well is 400 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

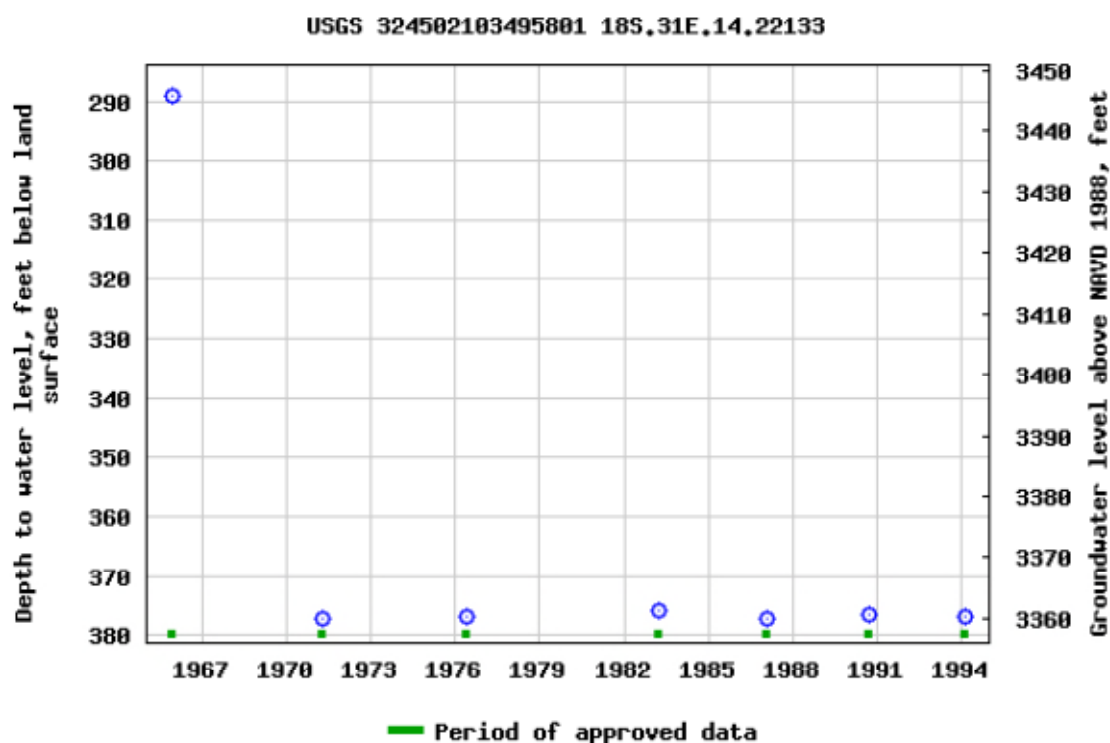
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2019-09-04 10:41:50 EDT

1.12 0.98 nadww01

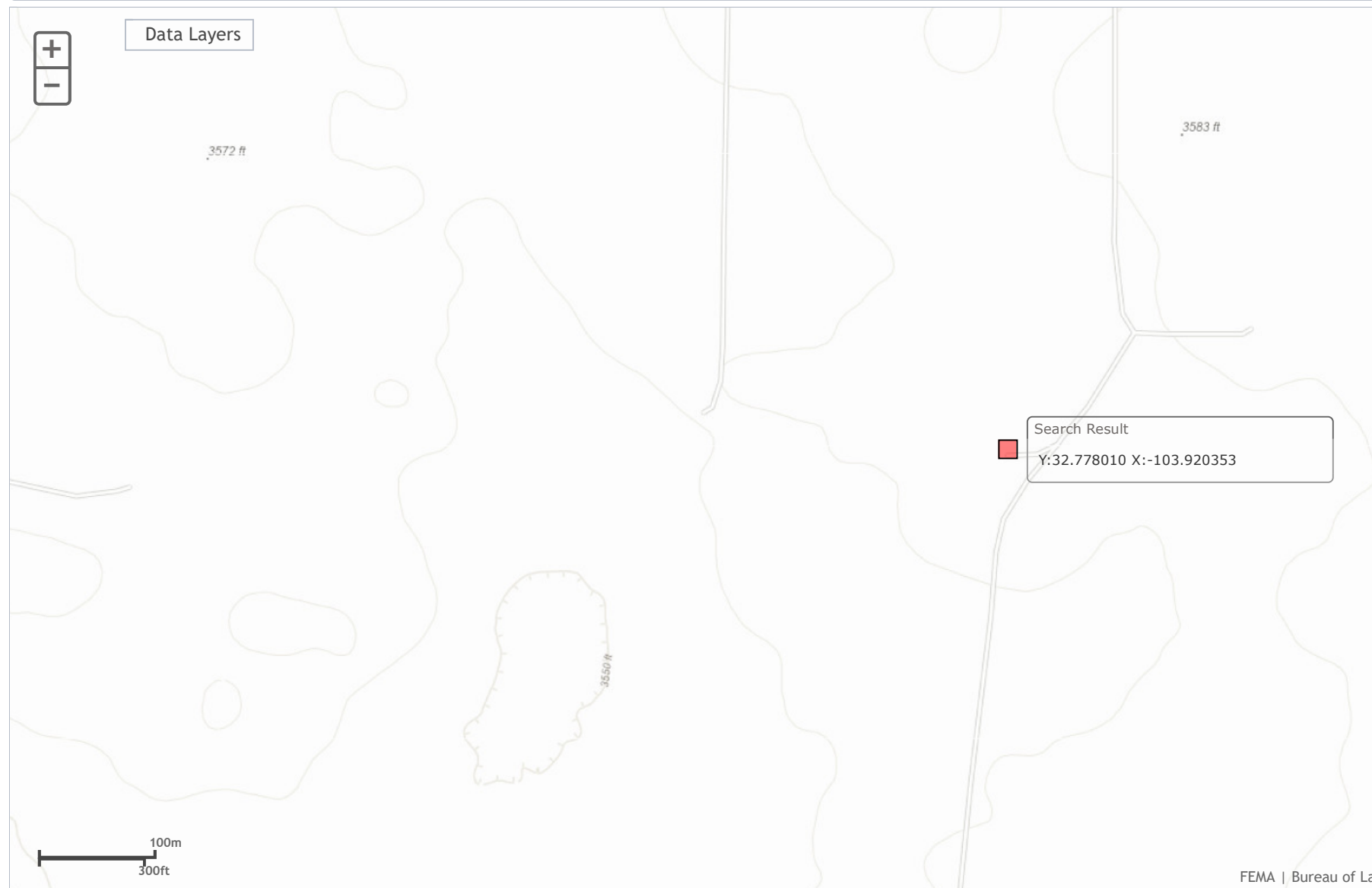




NFHL Web Mapping Application



Data Layers



Search Result
Y:32.778010 X:-103.920353

FEMA | Bureau of Land

Appendix C



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-001	626930-002	626930-003	626930-004	626930-005	626930-006
	<i>Field Id:</i>	AH #1 (0-1')	AH #1 (1-1.5')	AH #1 (2-2.5')	AH #1 (3-3.5')	AH #1 (4-4.5')	AH #1 (5-5.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-07-19 16:00	Jun-07-19 16:00				
	<i>Analyzed:</i>	Jun-08-19 05:05	Jun-08-19 05:24				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		<0.00200 0.00200	<0.00200 0.00200				
Toluene		<0.00200 0.00200	<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200	0.00228 0.00200				
m,p-Xylenes		<0.00401 0.00401	<0.00399 0.00399				
o-Xylene		<0.00200 0.00200	0.00271 0.00200				
Total Xylenes		<0.00200 0.00200	0.00271 0.00200				
Total BTEX		<0.00200 0.00200	0.00499 0.00200				
Chloride by EPA 300	<i>Extracted:</i>	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30
	<i>Analyzed:</i>	Jun-07-19 18:18	Jun-07-19 18:44	Jun-07-19 18:49	Jun-07-19 19:05	Jun-07-19 19:10	Jun-07-19 19:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		50.8 4.96	<5.02 5.02	<5.00 5.00	<4.99 4.99	<4.96 4.96	<4.97 4.97
TPH By SW8015 Mod	<i>Extracted:</i>	Jun-07-19 11:00	Jun-07-19 11:00				
	<i>Analyzed:</i>	Jun-07-19 14:03	Jun-07-19 15:21				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0				
Diesel Range Organics (DRO)		108 15.0	<15.0 15.0				
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0	<15.0 15.0				
Total TPH		108 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



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-007	626930-008	626930-009	626930-010	626930-011	626930-012
	<i>Field Id:</i>	AH #2 (0-1')	AH #2 (1-1.5')	AH #2 (2-2.5')	AH #2 (3-3.5')	AH #3 (0-1')	AH #3 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Jun-07-19 16:00	Jun-07-19 16:00			Jun-07-19 16:00	Jun-07-19 16:00
	<i>Analyzed:</i>	Jun-08-19 05:43	Jun-08-19 06:02			Jun-08-19 06:21	Jun-08-19 06:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201			<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00201 0.00201			<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201			<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402			<0.00397 0.00397	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00201 0.00201			<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201			<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00201 0.00201			<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00
	<i>Analyzed:</i>	Jun-07-19 19:21	Jun-07-19 19:26	Jun-07-19 19:31	Jun-10-19 17:17	Jun-10-19 17:22	Jun-10-19 17:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.00 5.00	<4.97 4.97	<4.99 4.99	<4.96 4.96	47.6 4.99	143 4.97
TPH By SW8015 Mod	<i>Extracted:</i>	Jun-07-19 11:00	Jun-07-19 11:00			Jun-07-19 11:00	Jun-07-19 11:00
	<i>Analyzed:</i>	Jun-07-19 15:46	Jun-07-19 16:12			Jun-07-19 16:38	Jun-07-19 17:04
	<i>Units/RL:</i>	mg/kg RL	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	<15.0 15.0
Diesel Range Organics (DRO)		<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	<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	<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



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-013	626930-014	626930-015	626930-016	626930-017	626930-018
	<i>Field Id:</i>	AH #3 (2-2.5')	AH #3 (3-3.5')	AH #3 (4-4.5')	AH #3 (5-5.5')	AH #4 (0-1')	AH #4 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>					Jun-07-19 16:00	Jun-07-19 16:00
	<i>Analyzed:</i>					Jun-08-19 06:59	Jun-08-19 07:18
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Benzene						<0.00200 0.00200	<0.00200 0.00200
Toluene						<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene						<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes						<0.00399 0.00399	<0.00400 0.00400
o-Xylene						<0.00200 0.00200	<0.00200 0.00200
Total Xylenes						<0.00200 0.00200	<0.00200 0.00200
Total BTEX						<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00
	<i>Analyzed:</i>	Jun-10-19 17:32	Jun-10-19 17:37	Jun-10-19 17:41	Jun-10-19 17:46	Jun-10-19 17:51	Jun-10-19 18:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.97 4.97	<5.03 5.03	<4.98 4.98	11.9 5.04	<4.98 4.98	<4.96 4.96
TPH By SW8015 Mod	<i>Extracted:</i>					Jun-07-19 11:00	Jun-07-19 11:00
	<i>Analyzed:</i>					Jun-07-19 17:29	Jun-07-19 17:55
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)						<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)						<15.0 15.0	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)						<15.0 15.0	<15.0 15.0
Total TPH						<15.0 15.0	<15.0 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-019	626930-020	626930-021	626930-022	626930-023	626930-024
	<i>Field Id:</i>	AH #4 (2-2.5')	AH #4 (3-3.5')	AH #4 (4-4.5')	AH #4 (5-5.5')	AH #5 (0-1')	AH #5 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>					Jun-07-19 16:00	Jun-07-19 15:30
	<i>Analyzed:</i>					Jun-08-19 07:37	Jun-08-19 08:13
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Benzene						<0.00202 0.00202	<0.00200 0.00200
Toluene						<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene						0.00265 0.00202	0.00200 0.00200
m,p-Xylenes						0.00441 0.00403	<0.00399 0.00399
o-Xylene						0.00302 0.00202	0.00210 0.00200
Total Xylenes						0.00743 0.00202	0.00210 0.00200
Total BTEX						0.0101 0.00202	0.00410 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00	Jun-08-19 15:00	Jun-07-19 15:45	Jun-07-19 15:45
	<i>Analyzed:</i>	Jun-10-19 18:20	Jun-10-19 18:25	Jun-10-19 18:39	Jun-10-19 18:44	Jun-10-19 10:38	Jun-10-19 10:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.96 4.96	<5.02 5.02	<5.03 5.03	<4.96 4.96	9.09 4.95	5.10 4.96
TPH By SW8015 Mod	<i>Extracted:</i>					Jun-07-19 11:00	Jun-07-19 11:00
	<i>Analyzed:</i>					Jun-07-19 18:21	Jun-07-19 18:47
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)						<14.9 14.9	<15.0 15.0
Diesel Range Organics (DRO)						135 14.9	<15.0 15.0
Motor Oil Range Hydrocarbons (MRO)						<14.9 14.9	<15.0 15.0
Total TPH						135 14.9	<15.0 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-025	626930-026	626930-027	626930-028	626930-029	626930-030
	<i>Field Id:</i>	AH #5 (2-2.5')	AH #5 (3-3.5')	AH #5 (4-5.5')	AH #5 (5-5.5')	AH #6 (0-1')	AH #6 (1-1.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>					Jun-07-19 15:30	Jun-07-19 15:30
	<i>Analyzed:</i>					Jun-08-19 08:32	Jun-08-19 08:51
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Benzene						<0.00201 0.00201	<0.00200 0.00200
Toluene						<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene						<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes						<0.00402 0.00402	<0.00401 0.00401
o-Xylene						<0.00201 0.00201	<0.00200 0.00200
Total Xylenes						<0.00201 0.00201	<0.00200 0.00200
Total BTEX						<0.00201 0.00201	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Jun-07-19 15:45	Jun-07-19 15:45	Jun-07-19 15:45	Jun-07-19 15:45	Jun-07-19 15:45	Jun-07-19 15:45
	<i>Analyzed:</i>	Jun-10-19 10:53	Jun-10-19 11:14	Jun-10-19 11:36	Jun-10-19 11:43	Jun-10-19 11:51	Jun-10-19 11:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<4.99 4.99	21.5 5.01	15.9 4.97	52.6 5.00	15.1 5.00	<5.00 5.00
TPH By SW8015 Mod	<i>Extracted:</i>					Jun-07-19 11:00	Jun-07-19 11:00
	<i>Analyzed:</i>					Jun-07-19 19:38	Jun-07-19 20:04
	<i>Units/RL:</i>					mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)						<15.0 15.0	<15.0 15.0
Diesel Range Organics (DRO)						114 15.0	24.3 15.0
Motor Oil Range Hydrocarbons (MRO)						<15.0 15.0	<15.0 15.0
Total TPH						114 15.0	24.3 15.0

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-031	626930-035	626930-036	626930-037	626930-038	626930-039
	<i>Field Id:</i>	AH #6 (2-2.5')	AH #7 (0-0.1')	AH #7 (1-1.5')	AH #7 (2-2.5')	AH #7 (3-3.5')	AH #7 (4-4.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		Jun-07-19 15:30	Jun-07-19 15:30			
	<i>Analyzed:</i>		Jun-08-19 09:10	Jun-08-19 09:29			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			<0.00198 0.00198	<0.00201 0.00201			
Toluene			<0.00198 0.00198	<0.00201 0.00201			
Ethylbenzene			<0.00198 0.00198	<0.00201 0.00201			
m,p-Xylenes			<0.00397 0.00397	<0.00402 0.00402			
o-Xylene			<0.00198 0.00198	<0.00201 0.00201			
Total Xylenes			<0.00198 0.00198	<0.00201 0.00201			
Total BTEX			<0.00198 0.00198	<0.00201 0.00201			
Chloride by EPA 300	<i>Extracted:</i>	Jun-07-19 15:45	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30
	<i>Analyzed:</i>	Jun-10-19 12:05	Jun-07-19 19:52	Jun-07-19 20:08	Jun-07-19 20:13	Jun-07-19 20:18	Jun-07-19 20:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		53.6 5.05	29.5 4.96	95.7 5.03	33.9 5.05	162 5.05	125 5.00
TPH By SW8015 Mod	<i>Extracted:</i>		Jun-07-19 11:00	Jun-07-19 11:00			
	<i>Analyzed:</i>		Jun-07-19 20:29	Jun-07-19 20:55			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)			1260 15.0	296 15.0			
Motor Oil Range Hydrocarbons (MRO)			107 15.0	43.8 15.0			
Total TPH			1370 15.0	340 15.0			

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	626930-040	626930-041	626930-042	626930-043	626930-044	626930-045
	<i>Field Id:</i>	AH #7 (5-5.5')	AH #8 (0-1')	AH #8 (1-1.5')	AH #8 (2-2.5')	AH #8 (3-3.5')	AH #8 (4-4.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00	Jun-05-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		Jun-07-19 15:30	Jun-07-19 15:30			
	<i>Analyzed:</i>		Jun-08-19 10:07	Jun-08-19 09:48			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Benzene			<0.00199 0.00199	<0.00202 0.00202			
Toluene			<0.00199 0.00199	<0.00202 0.00202			
Ethylbenzene			<0.00199 0.00199	<0.00202 0.00202			
m,p-Xylenes			<0.00398 0.00398	<0.00403 0.00403			
o-Xylene			<0.00199 0.00199	<0.00202 0.00202			
Total Xylenes			<0.00199 0.00199	<0.00202 0.00202			
Total BTEX			<0.00199 0.00199	<0.00202 0.00202			
Chloride by EPA 300	<i>Extracted:</i>	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:30	Jun-07-19 15:45	Jun-07-19 15:45
	<i>Analyzed:</i>	Jun-07-19 20:29	Jun-07-19 20:34	Jun-07-19 19:47	Jun-07-19 20:39	Jun-10-19 09:33	Jun-10-19 09:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		120 4.99	16.7 4.95	35.1 5.00	224 5.04	175 4.96	52.6 4.95
TPH By SW8015 Mod	<i>Extracted:</i>		Jun-07-19 11:00	Jun-07-19 11:00			
	<i>Analyzed:</i>		Jun-07-19 21:20	Jun-07-19 21:45			
	<i>Units/RL:</i>		mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)			<15.0 15.0	<15.0 15.0			
Diesel Range Organics (DRO)			1650 15.0	61.6 15.0			
Motor Oil Range Hydrocarbons (MRO)			115 15.0	<15.0 15.0			
Total TPH			1770 15.0	61.6 15.0			

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Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 626930

Tetra Tech- Midland, Midland, TX

Project Name: EOG Sibley 1 Fed Com 1



Project Id: 212C-MD-01787
Contact: Mike Carmona
Project Location: Eddy County, NM

Date Received in Lab: Fri Jun-07-19 10:46 am
Report Date: 11-JUN-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	626930-046					
	Field Id:	AH #8 (5-5.5')					
	Depth:						
	Matrix:	SOIL					
	Sampled:	Jun-05-19 00:00					
Chloride by EPA 300	Extracted:	Jun-10-19 16:45					
	Analyzed:	Jun-11-19 00:46					
	Units/RL:	mg/kg RL					
Chloride		12.0 5.02					

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Jessica Kramer

Jessica Kramer
Project Assistant

Analytical Report 626930

for
Tetra Tech- Midland

Project Manager: Mike Carmona

EOG Sibley 1 Fed Com 1

212C-MD-01787

11-JUN-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)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

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



11-JUN-19

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **626930**

EOG Sibley 1 Fed Com 1

Project Address: Eddy County, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 626930. 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. 626930 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 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH #1 (0-1')	S	06-05-19 00:00		626930-001
AH #1 (1-1.5')	S	06-05-19 00:00		626930-002
AH #1 (2-2.5')	S	06-05-19 00:00		626930-003
AH #1 (3-3.5')	S	06-05-19 00:00		626930-004
AH #1 (4-4.5')	S	06-05-19 00:00		626930-005
AH #1 (5-5.5')	S	06-05-19 00:00		626930-006
AH #2 (0-1')	S	06-05-19 00:00		626930-007
AH #2 (1-1.5')	S	06-05-19 00:00		626930-008
AH #2 (2-2.5')	S	06-05-19 00:00		626930-009
AH #2 (3-3.5')	S	06-05-19 00:00		626930-010
AH #3 (0-1')	S	06-05-19 00:00		626930-011
AH #3 (1-1.5')	S	06-05-19 00:00		626930-012
AH #3 (2-2.5')	S	06-05-19 00:00		626930-013
AH #3 (3-3.5')	S	06-05-19 00:00		626930-014
AH #3 (4-4.5')	S	06-05-19 00:00		626930-015
AH #3 (5-5.5')	S	06-05-19 00:00		626930-016
AH #4 (0-1')	S	06-05-19 00:00		626930-017
AH #4 (1-1.5')	S	06-05-19 00:00		626930-018
AH #4 (2-2.5')	S	06-05-19 00:00		626930-019
AH #4 (3-3.5')	S	06-05-19 00:00		626930-020
AH #4 (4-4.5')	S	06-05-19 00:00		626930-021
AH #4 (5-5.5')	S	06-05-19 00:00		626930-022
AH #5 (0-1')	S	06-05-19 00:00		626930-023
AH #5 (1-1.5')	S	06-05-19 00:00		626930-024
AH #5 (2-2.5')	S	06-05-19 00:00		626930-025
AH #5 (3-3.5')	S	06-05-19 00:00		626930-026
AH #5 (4-5.5')	S	06-05-19 00:00		626930-027
AH #5 (5-5.5')	S	06-05-19 00:00		626930-028
AH #6 (0-1')	S	06-05-19 00:00		626930-029
AH #6 (1-1.5')	S	06-05-19 00:00		626930-030
AH #6 (2-2.5')	S	06-05-19 00:00		626930-031
AH #7 (0-0.1')	S	06-05-19 00:00		626930-035
AH #7 (1-1.5')	S	06-05-19 00:00		626930-036
AH #7 (2-2.5')	S	06-05-19 00:00		626930-037
AH #7 (3-3.5')	S	06-05-19 00:00		626930-038
AH #7 (4-4.5')	S	06-05-19 00:00		626930-039
AH #7 (5-5.5')	S	06-05-19 00:00		626930-040
AH #8 (0-1')	S	06-05-19 00:00		626930-041
AH #8 (1-1.5')	S	06-05-19 00:00		626930-042
AH #8 (2-2.5')	S	06-05-19 00:00		626930-043
AH #8 (3-3.5')	S	06-05-19 00:00		626930-044
AH #8 (4-4.5')	S	06-05-19 00:00		626930-045
AH #8 (5-5.5')	S	06-05-19 00:00		626930-046

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Sample Cross Reference 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

AH #6 (3-3.5')	S	06-05-19 00:00	Not Analyzed
AH #6 (4-4.5')	S	06-05-19 00:00	Not Analyzed
AH #6 (5-5.5')	S	06-05-19 00:00	Not Analyzed

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: EOG Sibley 1 Fed Com 1**

Project ID: 212C-MD-01787
Work Order Number(s): 626930

Report Date: 11-JUN-19
Date Received: 06/07/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3091703 TPH By SW8015 Mod

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

Samples affected are: 626930-002.

Batch: LBA-3091755 BTEX by EPA 8021B

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

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 626930-036.

Batch: LBA-3091760 BTEX by EPA 8021B

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



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-001

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.8	4.96	mg/kg	06.07.19 18.18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 14.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	108	15.0	mg/kg	06.07.19 14.03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 14.03	U	1
Total TPH	PHC635	108	15.0	mg/kg	06.07.19 14.03		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	102	%	70-135	06.07.19 14.03		
o-Terphenyl	84-15-1	96	%	70-135	06.07.19 14.03		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-001

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 05.05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 05.05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 05.05	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.08.19 05.05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 05.05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 05.05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 05.05	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	06.08.19 05.05		
4-Bromofluorobenzene	460-00-4	102	%	70-130	06.08.19 05.05		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-002

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.07.19 18.44	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 15.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 15.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 15.21	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 15.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	06.07.19 15.21	
o-Terphenyl	84-15-1	67	%	70-135	06.07.19 15.21	**



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-002

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 05.24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 05.24	U	1
Ethylbenzene	100-41-4	0.00228	0.00200	mg/kg	06.08.19 05.24		1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.19 05.24	U	1
o-Xylene	95-47-6	0.00271	0.00200	mg/kg	06.08.19 05.24		1
Total Xylenes	1330-20-7	0.00271	0.00200	mg/kg	06.08.19 05.24		1
Total BTEX		0.00499	0.00200	mg/kg	06.08.19 05.24		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	06.08.19 05.24		
4-Bromofluorobenzene	460-00-4	72	%	70-130	06.08.19 05.24		



Certificate of Analytical Results 626930



Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-003

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.07.19 18.49	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-004

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	06.07.19 19.05	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-005

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.07.19 19.10	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-006

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	06.07.19 19.15	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-007

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.07.19 19.21	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 15.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 15.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 15.46	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 15.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.07.19 15.46	
o-Terphenyl	84-15-1	70	%	70-135	06.07.19 15.46	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-007

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 05.43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 05.43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 05.43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.08.19 05.43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 05.43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 05.43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 05.43	U	1
		% Recovery					
Surrogate	Cas Number			Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3		100	%	70-130	06.08.19 05.43	
4-Bromofluorobenzene	460-00-4		98	%	70-130	06.08.19 05.43	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-008

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	06.07.19 19.26	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 16.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 16.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 16.12	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 16.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	06.07.19 16.12	
o-Terphenyl	84-15-1	82	%	70-135	06.07.19 16.12	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-008

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.08.19 06.02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.08.19 06.02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.08.19 06.02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.08.19 06.02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.08.19 06.02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.08.19 06.02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.08.19 06.02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.08.19 06.02		
4-Bromofluorobenzene	460-00-4	98	%	70-130	06.08.19 06.02		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-009

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	06.07.19 19.31	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-010

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.10.19 17.17	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-011

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.6	4.99	mg/kg	06.10.19 17.22		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 16.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 16.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 16.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 16.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.07.19 16.38	
o-Terphenyl	84-15-1	92	%	70-135	06.07.19 16.38	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-011

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.08.19 06.21	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.08.19 06.21	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.08.19 06.21	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.08.19 06.21	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.08.19 06.21	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.08.19 06.21	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.08.19 06.21	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100		%	70-130	06.08.19 06.21	
4-Bromofluorobenzene	460-00-4	103		%	70-130	06.08.19 06.21	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-012

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	143	4.97	mg/kg	06.10.19 17.27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 17.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 17.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 17.04	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 17.04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	06.07.19 17.04		
o-Terphenyl	84-15-1	99	%	70-135	06.07.19 17.04		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-012

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 06.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 06.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 06.40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.08.19 06.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 06.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 06.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 06.40	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102		%	70-130	06.08.19 06.40	
1,4-Difluorobenzene	540-36-3	102		%	70-130	06.08.19 06.40	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

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

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-013

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	06.10.19 17.32	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #3 (3-3.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-014

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	06.10.19 17.37	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #3 (4-4.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-015

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	06.10.19 17.41	U	1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #3 (5-5.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-016

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.9	5.04	mg/kg	06.10.19 17.46		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #4 (0-1')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-017

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	06.10.19 17.51	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 17.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 17.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 17.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 17.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	06.07.19 17.29	
o-Terphenyl	84-15-1	91	%	70-135	06.07.19 17.29	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #4 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-017

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 06.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 06.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 06.59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.19 06.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 06.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 06.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 06.59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	06.08.19 06.59		
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.08.19 06.59		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-018

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.10.19 18.15	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 17.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 17.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 17.55	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 17.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	06.07.19 17.55	
o-Terphenyl	84-15-1	102	%	70-135	06.07.19 17.55	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #4 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-018

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 07.18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 07.18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 07.18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.08.19 07.18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 07.18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 07.18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 07.18	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	100		%	70-130	06.08.19 07.18	
1,4-Difluorobenzene	540-36-3	100		%	70-130	06.08.19 07.18	



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #4 (2-2.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-019

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.10.19 18.20	U	1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #4 (3-3.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-020

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	06.10.19 18.25	U	1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #4 (4-4.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-021

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	06.10.19 18.39	U	1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #4 (5-5.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-022

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: SPC

% Moisture:

Analyst: SPC

Date Prep: 06.08.19 15.00

Basis: Wet Weight

Seq Number: 3091807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	06.10.19 18.44	U	1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-023

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.09	4.95	mg/kg	06.10.19 10.38		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	06.07.19 18.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	135	14.9	mg/kg	06.07.19 18.21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	06.07.19 18.21	U	1
Total TPH	PHC635	135	14.9	mg/kg	06.07.19 18.21		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	121	%	70-135	06.07.19 18.21		
o-Terphenyl	84-15-1	109	%	70-135	06.07.19 18.21		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #5 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-023

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 16.00

Basis: Wet Weight

Seq Number: 3091760

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.08.19 07.37	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.08.19 07.37	U	1
Ethylbenzene	100-41-4	0.00265	0.00202	mg/kg	06.08.19 07.37		1
m,p-Xylenes	179601-23-1	0.00441	0.00403	mg/kg	06.08.19 07.37		1
o-Xylene	95-47-6	0.00302	0.00202	mg/kg	06.08.19 07.37		1
Total Xylenes	1330-20-7	0.00743	0.00202	mg/kg	06.08.19 07.37		1
Total BTEX		0.0101	0.00202	mg/kg	06.08.19 07.37		1
% Recovery							
Surrogate	Cas Number			Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3		100	%	70-130	06.08.19 07.37	
4-Bromofluorobenzene	460-00-4		111	%	70-130	06.08.19 07.37	



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #5 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-024

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.10	4.96	mg/kg	06.10.19 10.45		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 18.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	06.07.19 18.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 18.47	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	06.07.19 18.47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	127	%	70-135	06.07.19 18.47		
o-Terphenyl	84-15-1	118	%	70-135	06.07.19 18.47		



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #5 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-024

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 08.13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 08.13	U	1
Ethylbenzene	100-41-4	0.00200	0.00200	mg/kg	06.08.19 08.13		1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.08.19 08.13	U	1
o-Xylene	95-47-6	0.00210	0.00200	mg/kg	06.08.19 08.13		1
Total Xylenes	1330-20-7	0.00210	0.00200	mg/kg	06.08.19 08.13		1
Total BTEX		0.00410	0.00200	mg/kg	06.08.19 08.13		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96		%	70-130	06.08.19 08.13	
4-Bromofluorobenzene	460-00-4	122		%	70-130	06.08.19 08.13	



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #5 (2-2.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-025

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	06.10.19 10.53	U	1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #5 (3-3.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-026

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.5	5.01	mg/kg	06.10.19 11.14		1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #5 (4-5.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-027

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.9	4.97	mg/kg	06.10.19 11.36		1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #5 (5-5.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-028

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.6	5.00	mg/kg	06.10.19 11.43		1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-029

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.1	5.00	mg/kg	06.10.19 11.51		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 19.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	114	15.0	mg/kg	06.07.19 19.38		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 19.38	U	1
Total TPH	PHC635	114	15.0	mg/kg	06.07.19 19.38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	119	%	70-135	06.07.19 19.38		
o-Terphenyl	84-15-1	106	%	70-135	06.07.19 19.38		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #6 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-029

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.08.19 08.32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.08.19 08.32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.08.19 08.32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.08.19 08.32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.08.19 08.32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.08.19 08.32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.08.19 08.32	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104		%	70-130	06.08.19 08.32	
4-Bromofluorobenzene	460-00-4	107		%	70-130	06.08.19 08.32	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #6 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-030

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	06.10.19 11.58	U	1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 20.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	24.3	15.0	mg/kg	06.07.19 20.04		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 20.04	U	1
Total TPH	PHC635	24.3	15.0	mg/kg	06.07.19 20.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	134	%	70-135	06.07.19 20.04	
o-Terphenyl	84-15-1	129	%	70-135	06.07.19 20.04	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #6 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-030

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.08.19 08.51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.08.19 08.51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.08.19 08.51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.08.19 08.51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.08.19 08.51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.08.19 08.51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.08.19 08.51	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102		%	70-130	06.08.19 08.51	
4-Bromofluorobenzene	460-00-4	115		%	70-130	06.08.19 08.51	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #6 (2-2.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-031

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.6	5.05	mg/kg	06.10.19 12.05		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #7 (0-0.1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-035

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.5	4.96	mg/kg	06.07.19 19.52		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 20.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	1260	15.0	mg/kg	06.07.19 20.29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	107	15.0	mg/kg	06.07.19 20.29		1
Total TPH	PHC635	1370	15.0	mg/kg	06.07.19 20.29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.07.19 20.29	
o-Terphenyl	84-15-1	92	%	70-135	06.07.19 20.29	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #7 (0-0.1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-035

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.08.19 09.10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.08.19 09.10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.08.19 09.10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.08.19 09.10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.08.19 09.10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.08.19 09.10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.08.19 09.10	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105		%	70-130	06.08.19 09.10	
4-Bromofluorobenzene	460-00-4	101		%	70-130	06.08.19 09.10	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #7 (1-1.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-036

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.7	5.03	mg/kg	06.07.19 20.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 20.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	296	15.0	mg/kg	06.07.19 20.55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	43.8	15.0	mg/kg	06.07.19 20.55		1
Total TPH	PHC635	340	15.0	mg/kg	06.07.19 20.55		1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	06.07.19 20.55		
o-Terphenyl	84-15-1	111	%	70-135	06.07.19 20.55		



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #7 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-036

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.08.19 09.29	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.08.19 09.29	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.08.19 09.29	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.08.19 09.29	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.08.19 09.29	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.08.19 09.29	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.08.19 09.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	154	%	70-130	06.08.19 09.29	**	
1,4-Difluorobenzene	540-36-3	84	%	70-130	06.08.19 09.29		



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #7 (2-2.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-037

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.9	5.05	mg/kg	06.07.19 20.13		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #7 (3-3.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-038

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	162	5.05	mg/kg	06.07.19 20.18		1



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Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #7 (4-4.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-039

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	125	5.00	mg/kg	06.07.19 20.24		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #7 (5-5.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-040

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	120	4.99	mg/kg	06.07.19 20.29		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #8 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-041

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.7	4.95	mg/kg	06.07.19 20.34		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 21.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	1650	15.0	mg/kg	06.07.19 21.20		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	115	15.0	mg/kg	06.07.19 21.20		1
Total TPH	PHC635	1770	15.0	mg/kg	06.07.19 21.20		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.07.19 21.20	
o-Terphenyl	84-15-1	128	%	70-135	06.07.19 21.20	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #8 (0-1')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-041

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.08.19 10.07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.08.19 10.07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.08.19 10.07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.08.19 10.07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.08.19 10.07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.08.19 10.07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.08.19 10.07	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111		%	70-130	06.08.19 10.07	
1,4-Difluorobenzene	540-36-3	128		%	70-130	06.08.19 10.07	



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #8 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-042

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.1	5.00	mg/kg	06.07.19 19.47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: ARM

% Moisture:

Analyst: ARM

Date Prep: 06.07.19 11.00

Basis: Wet Weight

Seq Number: 3091703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	06.07.19 21.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	61.6	15.0	mg/kg	06.07.19 21.45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	06.07.19 21.45	U	1
Total TPH	PHC635	61.6	15.0	mg/kg	06.07.19 21.45		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	126	%	70-135	06.07.19 21.45		
o-Terphenyl	84-15-1	108	%	70-135	06.07.19 21.45		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: **AH #8 (1-1.5')**

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-042

Date Collected: 06.05.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: SCM

% Moisture:

Analyst: SCM

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091755

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.08.19 09.48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.08.19 09.48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.08.19 09.48	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.08.19 09.48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.08.19 09.48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.08.19 09.48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.08.19 09.48	U	1
Surrogate	Cas Number	% Recovery		Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	73	%	70-130	06.08.19 09.48		
1,4-Difluorobenzene	540-36-3	82	%	70-130	06.08.19 09.48		



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #8 (2-2.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-043

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.30

Basis: Wet Weight

Seq Number: 3091686

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	224	5.04	mg/kg	06.07.19 20.39		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #8 (3-3.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-044

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	175	4.96	mg/kg	06.10.19 09.33		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #8 (4-4.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-045

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.07.19 15.45

Basis: Wet Weight

Seq Number: 3091714

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.6	4.95	mg/kg	06.10.19 09.40		1



Certificate of Analytical Results 626930

Tetra Tech- Midland, Midland, TX

EOG Sibley 1 Fed Com 1

Sample Id: AH #8 (5-5.5')

Matrix: Soil

Date Received: 06.07.19 10.46

Lab Sample Id: 626930-046

Date Collected: 06.05.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.10.19 16.45

Basis: Wet Weight

Seq Number: 3091810

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.0	5.02	mg/kg	06.11.19 00.46		1



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland
EOG Sibley 1 Fed Com 1

Analytical Method: Chloride by EPA 300

Seq Number: 3091686

MB Sample Id: 7679458-1-BLK

Matrix: Solid

LCS Sample Id: 7679458-1-BKS

Prep Method: E300P

Date Prep: 06.07.19

LCSD Sample Id: 7679458-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	245	98	90-110	1	20	mg/kg	06.07.19 18:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3091714

MB Sample Id: 7679459-1-BLK

Matrix: Solid

LCS Sample Id: 7679459-1-BKS

Prep Method: E300P

Date Prep: 06.07.19

LCSD Sample Id: 7679459-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	238	95	238	95	90-110	0	20	mg/kg	06.10.19 08:49	

Analytical Method: Chloride by EPA 300

Seq Number: 3091807

MB Sample Id: 7679536-1-BLK

Matrix: Solid

LCS Sample Id: 7679536-1-BKS

Prep Method: E300P

Date Prep: 06.08.19

LCSD Sample Id: 7679536-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	250	100	251	100	90-110	0	20	mg/kg	06.10.19 16:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3091810

MB Sample Id: 7679605-1-BLK

Matrix: Solid

LCS Sample Id: 7679605-1-BKS

Prep Method: E300P

Date Prep: 06.10.19

LCSD Sample Id: 7679605-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	241	96	241	96	90-110	0	20	mg/kg	06.10.19 18:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3091686

Parent Sample Id: 626930-001

Matrix: Soil

MS Sample Id: 626930-001 S

Prep Method: E300P

Date Prep: 06.07.19

MSD Sample Id: 626930-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	50.8	248	312	105	304	102	90-110	3	20	mg/kg	06.07.19 18:23	

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

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

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

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



Tetra Tech- Midland
EOG Sibley 1 Fed Com 1

Analytical Method: Chloride by EPA 300

Seq Number: 3091686

Parent Sample Id: 626930-009

Matrix: Soil

MS Sample Id: 626930-009 S

Prep Method: E300P

Date Prep: 06.07.19

MSD Sample Id: 626930-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.857	250	259	104	252	101	90-110	3	20	mg/kg	06.07.19 19:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3091714

Parent Sample Id: 626930-025

Matrix: Soil

MS Sample Id: 626930-025 S

Prep Method: E300P

Date Prep: 06.07.19

MSD Sample Id: 626930-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1.53	250	244	97	244	97	90-110	0	20	mg/kg	06.10.19 11:00	

Analytical Method: Chloride by EPA 300

Seq Number: 3091714

Parent Sample Id: 626984-001

Matrix: Soil

MS Sample Id: 626984-001 S

Prep Method: E300P

Date Prep: 06.07.19

MSD Sample Id: 626984-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	17.1	250	266	100	267	100	90-110	0	20	mg/kg	06.10.19 09:11	

Analytical Method: Chloride by EPA 300

Seq Number: 3091807

Parent Sample Id: 626930-017

Matrix: Soil

MS Sample Id: 626930-017 S

Prep Method: E300P

Date Prep: 06.08.19

MSD Sample Id: 626930-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	253	102	250	100	90-110	1	20	mg/kg	06.10.19 17:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3091807

Parent Sample Id: 626931-011

Matrix: Soil

MS Sample Id: 626931-011 S

Prep Method: E300P

Date Prep: 06.08.19

MSD Sample Id: 626931-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	132	252	381	99	380	98	90-110	0	20	mg/kg	06.10.19 16:48	

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

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

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

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



Tetra Tech- Midland
EOG Sibley 1 Fed Com 1

Analytical Method: Chloride by EPA 300

Seq Number: 3091810

Parent Sample Id: 627045-001

Matrix: Soil

MS Sample Id: 627045-001 S

Prep Method: E300P

Date Prep: 06.10.19

MSD Sample Id: 627045-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3.41	248	241	96	242	96	90-110	0	20	mg/kg	06.10.19 18:25	

Analytical Method: Chloride by EPA 300

Seq Number: 3091810

Parent Sample Id: 627046-004

Matrix: Soil

MS Sample Id: 627046-004 S

Prep Method: E300P

Date Prep: 06.10.19

MSD Sample Id: 627046-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	268	249	497	92	496	92	90-110	0	20	mg/kg	06.11.19 00:18	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3091703

MB Sample Id: 7679503-1-BLK

Matrix: Solid

LCS Sample Id: 7679503-1-BKS

Prep Method: TX1005P

Date Prep: 06.07.19

LCSD Sample Id: 7679503-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	993	99	1030	103	70-135	4	20	mg/kg	06.07.19 13:13	
Diesel Range Organics (DRO)	<8.13	1000	1110	111	1030	103	70-135	7	20	mg/kg	06.07.19 13:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		102		102		70-135	%	06.07.19 13:13
o-Terphenyl	76		115		94		70-135	%	06.07.19 13:13

Analytical Method: TPH By SW8015 Mod

Seq Number: 3091703

Parent Sample Id: 626930-001

Matrix: Soil

MS Sample Id: 626930-001 S

Prep Method: TX1005P

Date Prep: 06.07.19

MSD Sample Id: 626930-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	12.8	999	976	96	982	97	70-135	1	20	mg/kg	06.07.19 14:29	
Diesel Range Organics (DRO)	108	999	973	87	1090	98	70-135	11	20	mg/kg	06.07.19 14:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		102		70-135	%	06.07.19 14:29
o-Terphenyl	87		106		70-135	%	06.07.19 14:29

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

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

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

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



Tetra Tech- Midland
EOG Sibley 1 Fed Com 1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3091755

MB Sample Id: 7679572-1-BLK

Matrix: Solid

LCS Sample Id: 7679572-1-BKS

Prep Method: SW5030B

Date Prep: 06.07.19

LCSD Sample Id: 7679572-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0871	87	0.0927	93	70-130	6	35	mg/kg	06.08.19 01:18	
Toluene	<0.000455	0.0998	0.0917	92	0.0974	97	70-130	6	35	mg/kg	06.08.19 01:18	
Ethylbenzene	<0.00200	0.0998	0.0950	95	0.101	101	70-130	6	35	mg/kg	06.08.19 01:18	
m,p-Xylenes	<0.00399	0.200	0.193	97	0.204	101	70-130	6	35	mg/kg	06.08.19 01:18	
o-Xylene	<0.00200	0.0998	0.0973	97	0.103	103	70-130	6	35	mg/kg	06.08.19 01:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		98		97		70-130	%	06.08.19 01:18
4-Bromofluorobenzene	100		102		102		70-130	%	06.08.19 01:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3091760

MB Sample Id: 7679576-1-BLK

Matrix: Solid

LCS Sample Id: 7679576-1-BKS

Prep Method: SW5030B

Date Prep: 06.07.19

LCSD Sample Id: 7679576-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0943	95	0.0850	85	70-130	10	35	mg/kg	06.08.19 03:13	
Toluene	<0.000453	0.0994	0.0919	92	0.0836	84	70-130	9	35	mg/kg	06.08.19 03:13	
Ethylbenzene	<0.000561	0.0994	0.100	101	0.0914	91	70-130	9	35	mg/kg	06.08.19 03:13	
m,p-Xylenes	<0.00101	0.199	0.203	102	0.184	92	70-130	10	35	mg/kg	06.08.19 03:13	
o-Xylene	<0.000342	0.0994	0.0998	100	0.0918	92	70-130	8	35	mg/kg	06.08.19 03:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	88		98		103		70-130	%	06.08.19 03:13
4-Bromofluorobenzene	86		99		91		70-130	%	06.08.19 03:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3091755

Parent Sample Id: 626632-001

Matrix: Soil

MS Sample Id: 626632-001 S

Prep Method: SW5030B

Date Prep: 06.07.19

MSD Sample Id: 626632-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000673	0.0996	0.0742	74	0.0339	33	70-130	75	35	mg/kg	06.08.19 01:56	XF
Toluene	0.00109	0.0996	0.0826	82	0.0497	49	70-130	50	35	mg/kg	06.08.19 01:56	XF
Ethylbenzene	<0.000563	0.0996	0.0854	86	0.0530	53	70-130	47	35	mg/kg	06.08.19 01:56	XF
m,p-Xylenes	<0.00398	0.199	0.180	90	0.0971	49	70-130	60	35	mg/kg	06.08.19 01:56	XF
o-Xylene	0.000733	0.0996	0.0886	88	0.0489	48	70-130	58	35	mg/kg	06.08.19 01:56	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		91		70-130	%	06.08.19 01:56
4-Bromofluorobenzene	103		108		70-130	%	06.08.19 01:56

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

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

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

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



Tetra Tech- Midland
EOG Sibley 1 Fed Com 1

Analytical Method: BTEX by EPA 8021B

Seq Number: 3091760

Parent Sample Id: 626930-001

Matrix: Soil

MS Sample Id: 626930-001 S

Prep Method: SW5030B

Date Prep: 06.07.19

MSD Sample Id: 626930-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0996	0.0826	83	0.0855	85	70-130	3	35	mg/kg	06.08.19 03:51	
Toluene	0.000591	0.0996	0.0801	80	0.0795	78	70-130	1	35	mg/kg	06.08.19 03:51	
Ethylbenzene	<0.000563	0.0996	0.0833	84	0.0799	79	70-130	4	35	mg/kg	06.08.19 03:51	
m,p-Xylenes	<0.00101	0.199	0.170	85	0.160	79	70-130	6	35	mg/kg	06.08.19 03:51	
o-Xylene	0.000451	0.0996	0.0854	85	0.0807	79	70-130	6	35	mg/kg	06.08.19 03:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		105		70-130	%	06.08.19 03:51
4-Bromofluorobenzene	99		101		70-130	%	06.08.19 03:51

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 1 of 5

Client Name: EOC		Site Manager: MIKE CARWONIA	
Project Name: SIBLEY 1 FED COM 1		Project #: 212C-WO-01787	
Project Location: Eddy Co, NM			
Invoice to: EOC - JAMES KENNEDY			
Receiving Laboratory: XCNLC6		Sampler Signature: TONY LEONARDIA	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2019			
AH #1 (0-1')		6/5/19	4:45		X				X			1	2
AH #2 (1-1.5')												1	2
AH #1 (2-2.5')												1	2
AH #1 (3-3.5')												1	2
AH #1 (4-4.5')												1	2
AH #1 (5-5.5')												1	2
AH #2 (6-6.5')												1	2
AH #2 (7-7.5')												1	2
AH #2 (8-8.5')												1	2
AH #2 (9-9.5')												1	2

LAB USE ONLY	REMARKS:	ANALYSIS REQUEST (Circle or Specify Method No.)														
		STANDARD	RUSH: Same Day	24 hr	48 hr	72 hr	Special Report Limits or TRRP Report	GC/MS Vol.	GC/MS Semi. Vol.	PCB's	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance
CS10.3																

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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Page 2 of 5

Client Name: ECH		Site Manager: MIKE CARMONA	
Project Name: SIGLEY 1 FEB COM-1			
Project Location: Eddy Co, NM		Project #: 212C-MD-61787	
Invoice to: ECH			
Receiving Laboratory: XENCO		Sampler Signature: TONY LEONARD	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
AH # 3 (0-1')		6/5/19		X			X		
AH # 3 (1-1.5')								1	2
AH # 3 (2-2.5')								1	2
AH # 3 (3-3.5')								1	2
AH # 3 (4-4.5')								1	2
AH # 3 (5-5.5')								1	2
AH # 4 (0-1')								1	2
AH # 4 (1-1.5')								1	2
AH # 4 (2-2.5')								1	2
AH # 4 (3-3.5')								1	2

LAB USE ONLY	REMARKS:
<input type="checkbox"/> STANDARD	
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
<input type="checkbox"/> Rush Charges Authorized	
<input type="checkbox"/> Special Report Limits or TRRP Report	

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

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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6/22/2021

Page 3 of 5

Client Name: E64		Site Manager: Mike Catmon	
Project Name: SIBLEY 1 FEB CORN 1		Project #: 212C-WD-01787	
Project Location: Eddy County		Invoice to: EOL-JAMES KENNEDY	
Receiving Laboratory: Kenco		Sampler Signature: TONY LEBRON	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
AH # 4 (4-4.5')		6/5/19			X			X		1	2
AH # 4 (5-5.5')										1	2
AH # 5 (0-1')										1	2
AH # 5 (1-1.5')										1	2
AH # 5 (2-2.5')										1	2
AH # 5 (3-3.5')										1	2
AH # 5 (4-4.5')										1	2
AH # 5 (5-5.5')										1	2
AH # 6 (0-1')										1	2
AH # 6 (1-1.5')										1	2

LAB USE ONLY		REMARKS:	
Received by: <i>[Signature]</i>	Date: 6/5/19 Time: 15:26	<input type="checkbox"/> STANDARD	
Relinquished by: <i>[Signature]</i>	Date: 6/5/19 Time: 15:26	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	
Relinquished by: <i>[Signature]</i>	Date: 6/5/19 Time: 15:26	<input type="checkbox"/> Rush Charges Authorized	
Relinquished by: <i>[Signature]</i>	Date: 6/5/19 Time: 15:26	<input type="checkbox"/> Special Report Limits or TRRP Report	

ANALYSIS REQUEST (Circle or Specify Method No.)	
BTEX 8021B BTEX 8260B	
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - 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	

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(Circle) HAND DELIVERED FEDEX UPS Tracking #

Analysis Request of Custody Record



Tetra Tech, Inc.

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 Midland, Texas 79705
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6/16/20 Page 4 of 5

Client Name: EOL		Site Manager: MIKE CARMON	
Project Name: SIBLEY 1 feed corn 1			
Project Location: Eddy county		Project #: 2126-MO-01787	
Invoice to: EOL - James Kennedy			
Receiving Laboratory: Kenda		Sampler Signature: Tony Legarda	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
AM#6 (2-2.5')		6/5/19			X			X		1	2
AM#6 (3-3.5')										1	2
AM#6 (4-4.5')										1	2
AM#6 (5-5.5')										1	2
AM#7 (0-1')										1	2
AM#7 (1-1.5')										1	2
AM#7 (2-2.5')										1	2
AM#7 (3-3.5')										1	2
AM#7 (4-4.5')										1	2
AM#7 (5-5.5')										1	2

LAB USE ONLY		REMARKS:	
<input type="checkbox"/> STANDARD	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr		
<input type="checkbox"/> Rush Charges Authorized			
<input type="checkbox"/> Special Report Limits or TRRP Report			

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

ORIGINAL COPY

(Circle) HAND/DELIVERED FEDEX UPS Tracking #:



Client: Tetra Tech- Midland

Date/ Time Received: 06/07/2019 10:46:00 AM

Work Order #: 626930

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)?	.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?	Yes	Did not receive containers for samples 032, 033 & 034
#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)?	N/A	
#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: 06/07/2019

Checklist reviewed by:

Jessica Kramer

Date: 06/07/2019



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

July 16, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SIBYL #1 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/15/19 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BOTTOM HOLE 1 (2' BEB) (H902415-01)

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	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/15/2019	ND	416	104	400	3.77		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 2 (2' BEB) (H902415-02)

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	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 3 (2' BEB) (H902415-03)

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	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 4 (2' BEB) (H902415-04)

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	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 5 (2' BEB) (H902415-05)

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	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTEx	<0.300	0.300	07/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	17.3	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2019	Sampling Date:	07/15/2019
Reported:	07/16/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Tamara Oldaker
Project Location:	EOG - EDDY CO NM		

Sample ID: BOTTOM HOLE 6 (2' BEB) (H902415-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEX	<0.300	0.300	07/16/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	121	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	23.2	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 7 (2' BEB) (H902415-07)

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	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTEx	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	77.7	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	19.4	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 8 (2' BEB) (H902415-08)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	38.9	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 9 (2' BEB) (H902415-09)

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	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 10 (2' BEB) (H902415-10)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 99.6 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 11 (1.5' BEB) (H902415-11)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 12 (1.5' BEB) (H902415-12)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 13 (1.5' BEB) (H902415-13)

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	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTEX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 14 (1.5' BEB) (H902415-14)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 15 (1.5' BEB) (H902415-15)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 16 (1.5' BEB) (H902415-16)

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	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTEX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/15/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/15/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/15/2019	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 17 (1.5' BEB) (H902415-17)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/16/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 99.1 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 18 (1.5' BEB) (H902415-18)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/16/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 19 (1.5' BEB) (H902415-19)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77		
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/16/2019	ND	198	99.1	200	3.18	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	191	95.7	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 20 (2' BEB) (H902415-20)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	2.10	105	2.00	1.77	
Toluene*	<0.050	0.050	07/16/2019	ND	2.09	104	2.00	0.853	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	1.28	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.96	99.4	6.00	0.477	
Total BTX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/16/2019	ND	448	112	400	7.41	

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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW - 1 (H902415-21)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/16/2019	ND	448	112	400	7.41		

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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NSW - 2 (H902415-22)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW - 1 (H902415-23)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW - 2 (H902415-24)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSW - 3 (H902415-25)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55	
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85	
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97	
Total BTX	<0.300	0.300	07/16/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	22.8	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 1 (H902415-26)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 96.9 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 2 (H902415-27)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: ESW - 3 (H902415-28)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTEx	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 1 (H902415-29)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTX	<0.300	0.300	07/16/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	65.7	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	17.8	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 2 (H902415-30)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2019	ND	1.96	98.0	2.00	2.21		
Toluene*	<0.050	0.050	07/16/2019	ND	1.95	97.7	2.00	7.55		
Ethylbenzene*	<0.050	0.050	07/16/2019	ND	1.84	91.8	2.00	7.85		
Total Xylenes*	<0.150	0.150	07/16/2019	ND	5.53	92.2	6.00	6.97		
Total BTX	<0.300	0.300	07/16/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/15/2019
 Reported: 07/16/2019
 Project Name: SIBYL #1 FED COM #1
 Project Number: 212C-MD-01787
 Project Location: EOG - EDDY CO NM

Sampling Date: 07/15/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSW - 3 (H902415-31)

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	07/15/2019	ND	2.07	103	2.00	2.53		
Toluene*	<0.050	0.050	07/15/2019	ND	2.12	106	2.00	4.03		
Ethylbenzene*	<0.050	0.050	07/15/2019	ND	2.00	100	2.00	4.82		
Total Xylenes*	<0.150	0.150	07/15/2019	ND	6.23	104	6.00	4.87		
Total BTEx	<0.300	0.300	07/15/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/16/2019	ND	432	108	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	07/16/2019	ND	201	100	200	3.33	
DRO >C10-C28*	<10.0	10.0	07/16/2019	ND	189	94.7	200	6.79	
EXT DRO >C28-C36	<10.0	10.0	07/16/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Released to Imaging: 8/18/2021 9:18:43 AM

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(575) 393-2326 FAX (575) 393-2476

Released to Imaging: 8/18/2021 9:18:43 AM



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

July 18, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SIBYL #1 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 07/17/19 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/17/2019	Sampling Date:	07/17/2019
Reported:	07/18/2019	Sampling Type:	Soil
Project Name:	SIBYL #1 FED COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01787	Sample Received By:	Jodi Henson
Project Location:	EOG - EDDY CO NM		

Sample ID: BOTTOM HOLE 6 (2.5' BEB) (H902456-01)

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	07/18/2019	ND	2.13	107	2.00	2.58		
Toluene*	<0.050	0.050	07/18/2019	ND	2.15	107	2.00	2.89		
Ethylbenzene*	<0.050	0.050	07/18/2019	ND	2.00	100	2.00	2.51		
Total Xylenes*	<0.150	0.150	07/18/2019	ND	6.04	101	6.00	2.80		
Total BTEX	<0.300	0.300	07/18/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/18/2019	ND	432	108	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	07/18/2019	ND	195	97.3	200	0.325	
DRO >C10-C28*	<10.0	10.0	07/18/2019	ND	204	102	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	07/18/2019	ND					

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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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, Lab Director/Quality Manager



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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Released to Imaging: 8/18/2021 9:18:43 AM

Incident ID	NAB1915140568
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Robert Hamlet Date: 8/18/2021

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

Closure Approved by: Robert Hamlet Date: 8/18/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 27307

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 27307
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAB1915140568 SIBYL 1 FEDERAL #001, thank you. This closure is approved.	8/18/2021