

SITE INFORMATION

Report Type: Closure Report 2RP-2802

General Site Information:

Site:	Bodacious BSM Federal #1H				
Company:	EOG Resources				
Section, Township and Range	Unit M	Sec. 1	T 26S	R 26E	
County:	Eddy County				
GPS:	32.06607		-104.253487		

Release Data:

Date Released:	1/21/2015
Type Release:	Produced Water
Source of Contamination:	Leaking Line
Fluid Released:	250 Barrels
Fluids Recovered:	0 Barrels

Official Communication:

Name:	James Kennedy		Mike Carmona
Company:	EOG Resources		Tetra Tech
Address:	5509 Champions Dr		901 West Wall Street
			Suite 100
City:	Midland Texas, 79706		Midland, Texas
Phone number:	432-686-7016		(432) 687-8121
Fax:			
Email:	James_kennedy@eogresources.com		mike.carmona@tetrtech.com

Site Characterization

Depth to Groundwater:	15.22' below surface
Karst Potential:	High

]

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



October 21, 2020

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
1301 West Grand Avenue
Artesia, New Mexico 88210

Re: Closure Report for the EOG Resources, Bodacious BSM Federal #1H, Unit M, Section 1, Township 26 South, Range 26 East, Eddy County, New Mexico. 2RP-2802

Mr. Bratcher

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Bodacious BSM Federal #1H, Section 1, Township 26 South, Range 26 East, Eddy County, New Mexico (Site). The site coordinates are 32.066072°, -104.253487°. 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 January 21, 2015, and released approximately 250 barrels of produced water, due to a line that froze and formed a leak. None of the released fluids were recovered. The release occurred near the pad and impacted areas West and South of the pad, impacted areas measuring approximately 371' x 78' and 159' x 15'. 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, and the site is in a high karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 15, approximately 2.28 miles southwest of the site, and has a reported depth to groundwater of 15.22 feet below ground surface. Site characterization data is included in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene

Tetra Tech

901 Wes Wal St., Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

**TETRA TECH**

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

Soil Assessment and Analytical Results

On September 25, 2018, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of seven (7) trenches (T-1 through T-7) were installed to total depths ranging from 0-1' – 8.0' below surface. Additionally, a background sample at a depth of 2.5' below surface was collected on October 2, 2018. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The trench locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene or total BTEX concentrations above the laboratory reporting limits. However, elevated TPH and chloride concentrations were detected above RRAL. The areas of T-2, T-4, and T-5 showed TPH concentrations of 196 mg/kg, 121 mg/kg, 155 mg/kg, and 160 mg/kg, at depths of 0-1.0', 2.0', 3.0', and 2.0', respectively. There were concentrations of TPH detected below RRALs in the areas of T-3, T-4, T-5, and T-6 as well. The areas of T-1 through T-7 showed chloride concentration highs of 3,990 mg/kg, 8,490 mg/kg, 17,300 mg/kg, 5,080 mg/kg, 6,770 mg/kg, 2,340 mg/kg, and 12,300 mg/kg, respectively. The areas of trenches (T-1 through T-5 and T-7) were not vertically defined with the trench data; however, the area of T-6 was vertically defined at 4.0'.

On October 30, 2018, Tetra Tech personnel were onsite to install boreholes and vertically define the areas of the trenches. A total of seven (7) boreholes (BH-1 through BH-7) were installed to total depths ranging from surface to 20.0' below surface. These boreholes were in the areas of the trenches, T-1 through T-7, respectively. Additionally, a background sample at a depth of 15.0' was collected on October 30, 2018. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The trench locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. However, elevated chloride concentrations were detected above RRAL. The areas of BH-1 through BH-5, and BH-7 showed chloride concentration highs of 892 mg/kg, 4,110 mg/kg, 1,970 mg/kg, 802 mg/kg, 9,250 mg/kg, and 3,250 mg/kg, respectively. These areas were vertically defined at depths ranging from 0-1.0' to 10.0'.

Remediation and Reclamation Activities

Based on the results of the soil assessment, Tetra Tech personnel were onsite April 27, 2020, through June 2, 2020, to supervise the remediation and reclamation activities as well as to collect confirmation samples. The impacted areas were excavated to total depths ranging from 4.0'-10.0' below surface, as shown on Figure 4, 4A and Table 2.

**TETRA TECH**

A total of 220 bottom hole samples (Bottom Hole 1 through Bottom Hole 220) and 49 sidewall samples (N1SW through N10SW, W1SW through W16SW, E1SW through E16SW, and S1SW through S7SW) were collected every 200 square feet to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 4 and 4A.

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

Approximately 9,240 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

Reseeding was performed based on the soils at the site, the BLM Seed Mixture 2 for Sandy Sites was used and planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture was spread by a drill equipped with a depth regulator, handheld broadcaster and raked.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective eradication method. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The seed mixture details and corresponding pounds PLS per acre are included in Appendix C.

Conclusion

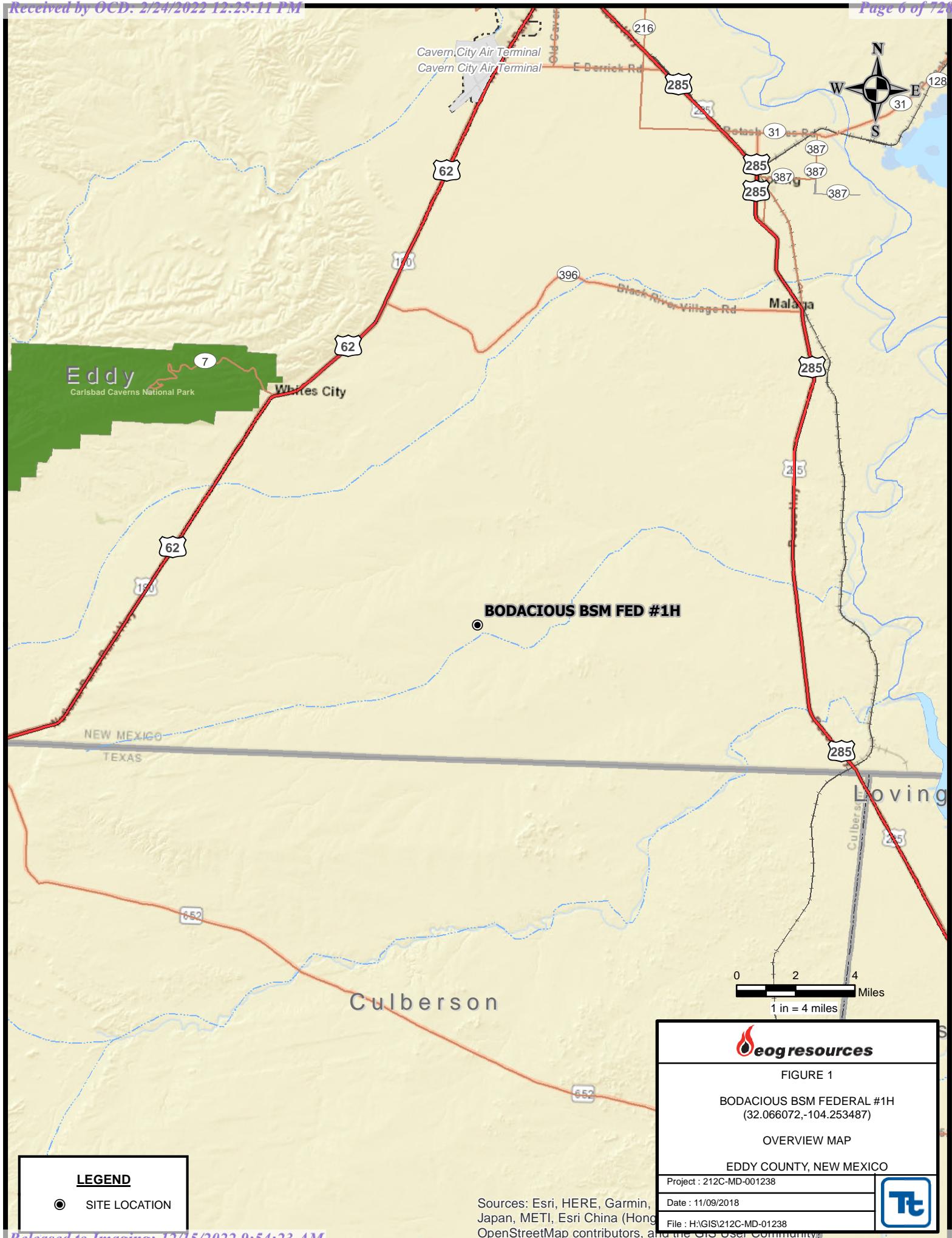
Based on the laboratory results and remediation activities performed, EOG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

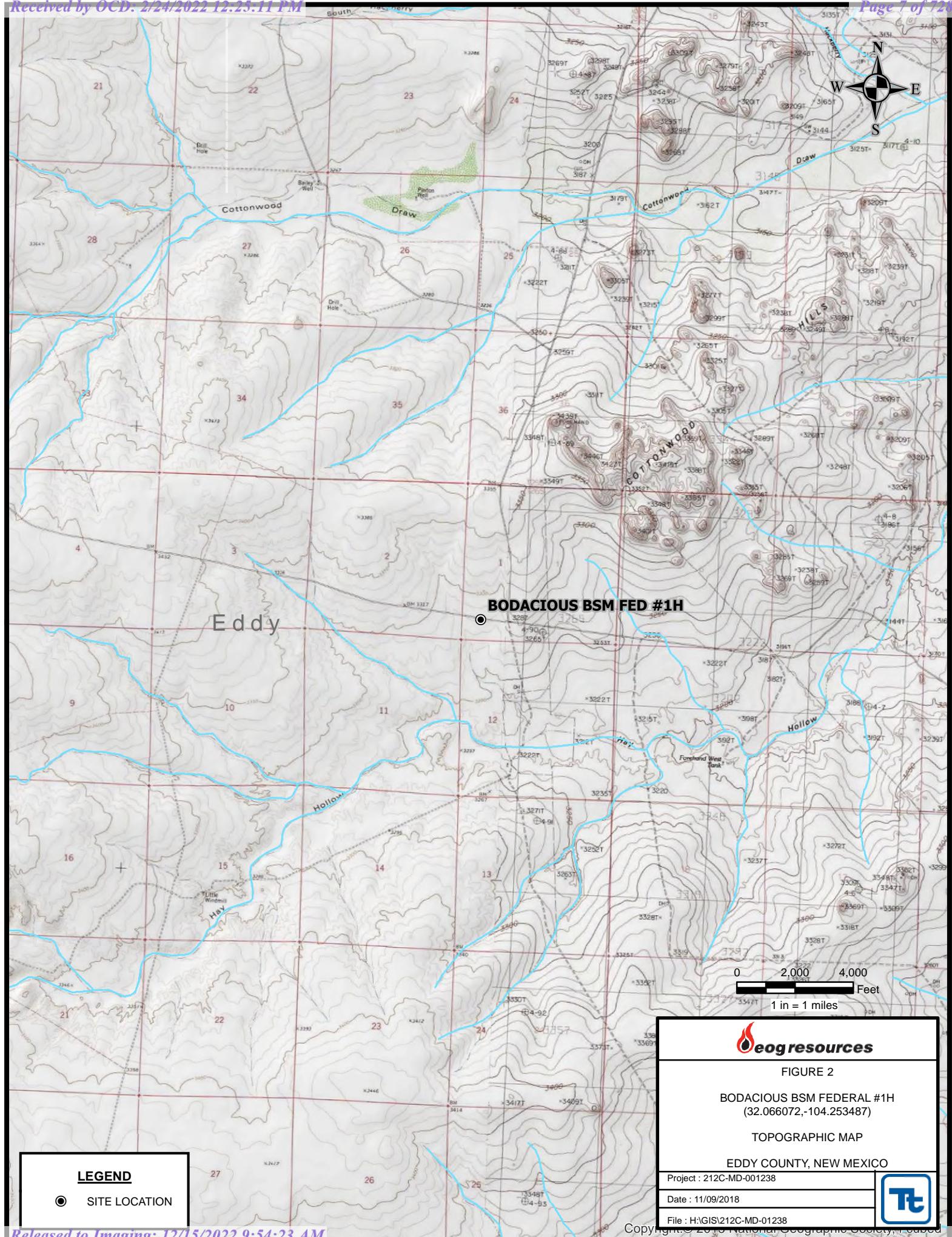
Respectfully submitted,
TETRA TECH

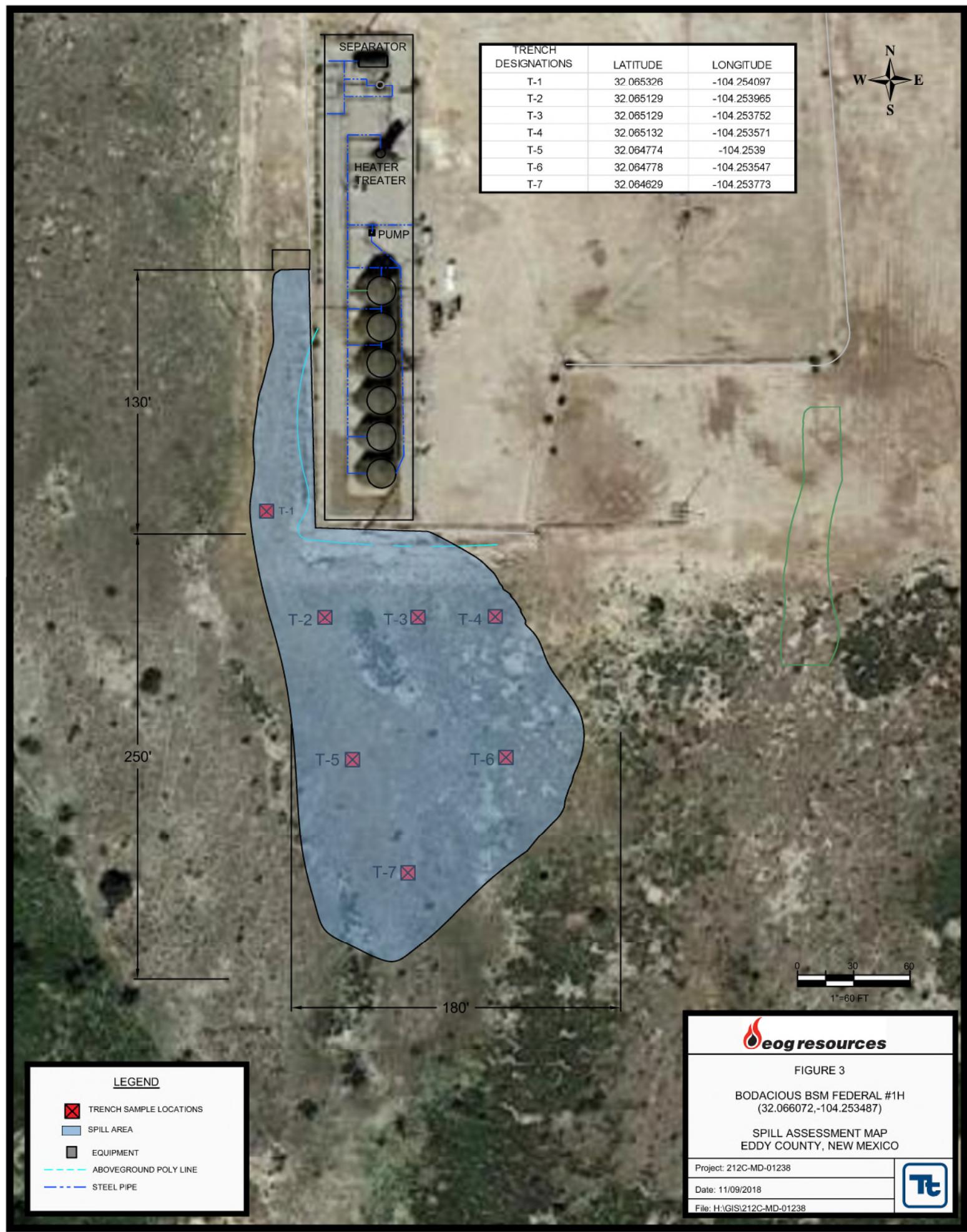
A handwritten signature in black ink, appearing to read "Mike Carmona".

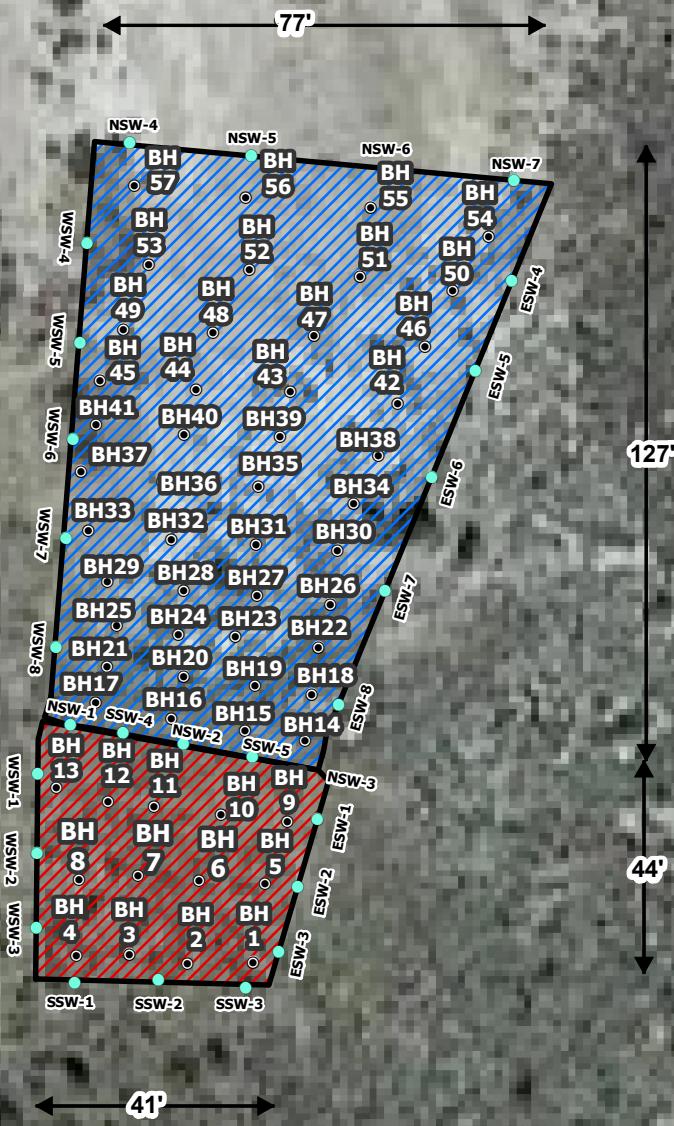
Mike Carmona,
Project Manager

Figures

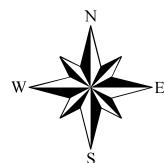








- BOTTOM HOLE SAMPLE LOCATIONS
- SIDEWALL SAMPLE LOCATIONS
- 7.0' EXCAVATED DEPTH
- 10.0' EXCAVATED DEPTH



0 20 40
Approximate Scale in Feet

Source: "New Mexico". 32° 3'57.86"N, 104°15'12.55"W. Google Earth.
December 16, 2019. June 8, 2020.

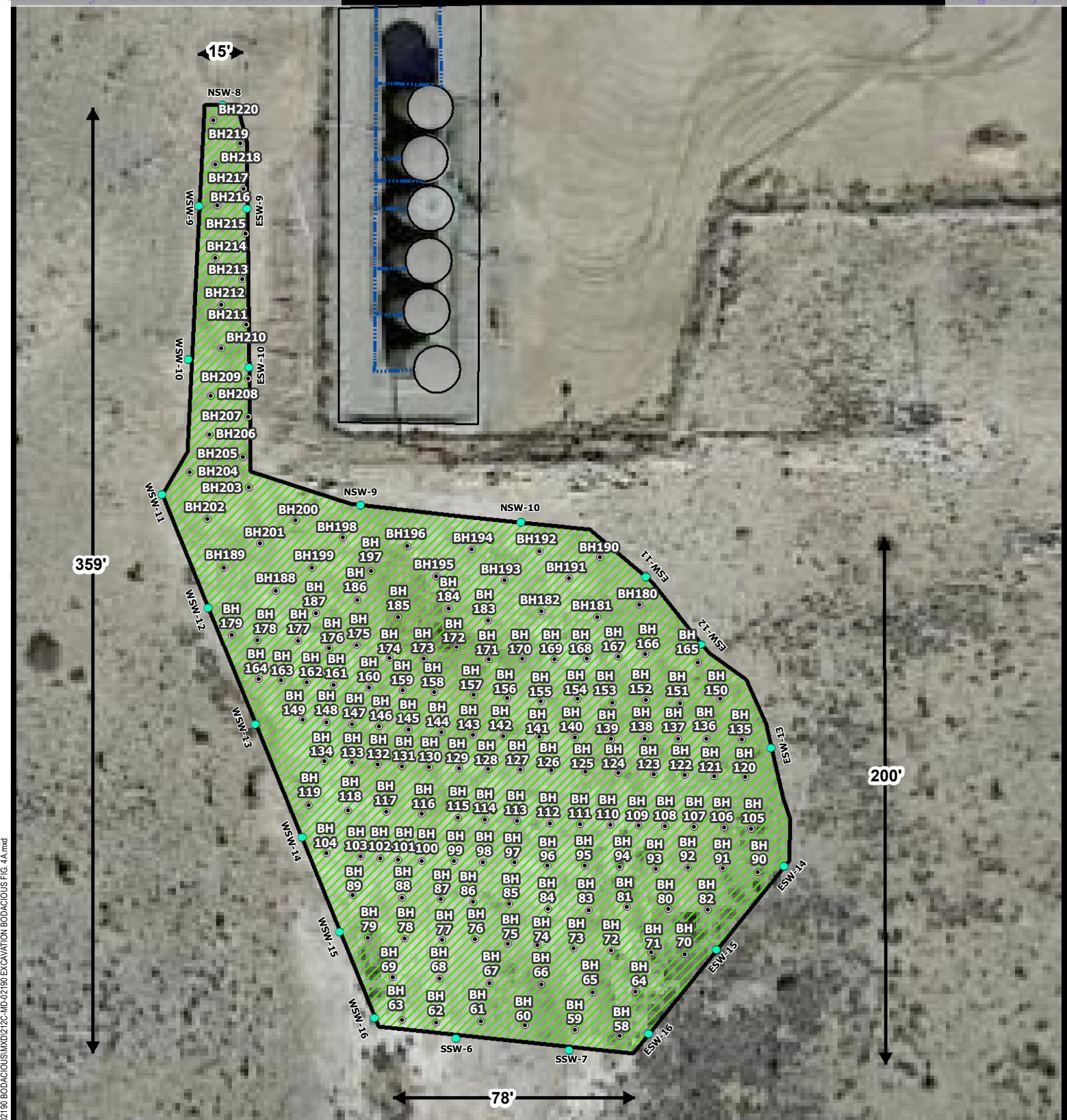
EXCAVATION AREA & DEPTH MAP
BODACIOUS BSM FEDERAL #1H
Property Located at coordinates 32.066072°, -104.253487°
EDDY COUNTY, NEW MEXICO

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

eog resources

Project #: 212C-MD-02190
Date: 06-08-2020
Drawn By: MLM

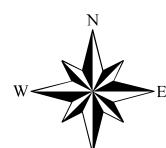
FIGURE
4



- BOTTOM HOLE SAMPLE LOCATIONS
- SIDEWALL SAMPLE LOCATIONS
- STEEL PIPE
- EQUIPMENT
- 4.0' EXCAVATED DEPTH

Source: "New Mexico". 32° 3'57.86"N, 104°15'12.55"W. Google Earth.
December 16, 2019. June 8, 2020.

EXCAVATION AREA & DEPTH MAP
BODACIOUS BSM FEDERAL #1H
Property Located at coordinates 32.066072°, -104.253487°
EDDY COUNTY, NEW MEXICO



0 25 50
Approximate Scale in Feet

eog resources

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

Project #: 212C-MD-02190
Date: 06-08-2020
Drawn By: MLM

FIGURE
4A

Tables

**Table 1
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico**

Table 1
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Table 1
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (in)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
BH-7	10/30/2018	0-1	-	X	-	-	-	-	-	-	-	-	-	-	1,970
	"	2-3	-	X	-	-	-	-	-	-	-	-	-	-	3,250
	"	4-5	-	X	-	-	-	-	-	-	-	-	-	-	2,050
	"	6-7	-	X	-	-	-	-	-	-	-	-	-	-	1,140
	"	9-10	-	X	-	-	-	-	-	-	-	-	-	-	431
	"	14-15	-	X	-	-	-	-	-	-	-	-	-	-	34.1
	"	19-20	-	X	-	-	-	-	-	-	-	-	-	-	41.6
BG-1	10/2/2018	0-1	-	X	-	-	-	-	-	-	-	-	-	-	<5.00
	"	1-1.5	-	X	-	-	-	-	-	-	-	-	-	-	<5.03
	"	2-2.5	-	X	-	-	-	-	-	-	-	-	-	-	<5.00
Background BH	10/30/2018	0-1	-	X	-	-	-	-	-	-	-	-	-	-	41.6
	"	2-3	-	X	-	-	-	-	-	-	-	-	-	-	<25.0
	"	4-5	-	X	-	-	-	-	-	-	-	-	-	-	<25.0
	"	6-7	-	X	-	-	-	-	-	-	-	-	-	-	<25.0
	"	9-10	-	X	-	-	-	-	-	-	-	-	-	-	<125
	"	14-15	-	X	-	-	-	-	-	-	-	-	-	-	<125

(-) Not Analyzed

Excavated

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-1	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.7
BH-2	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.4
BH-3	5/15/2020	10'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.9
BH-4	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.6
BH-5	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	61.3
BH-6	5/15/2020	10'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	65.9
BH-7	5/15/2020	10'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	54.5
BH-8	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	63.3
BH-9	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8.09
BH-10	5/15/2020	10'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	7.85
BH-11	5/15/2020	10'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	7.72
BH-12	5/15/2020	10'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	8.49
BH-13	5/15/2020	10'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8.17
BH-14	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	79.5
BH-15	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	76.3
BH-16	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	86.1
BH-17	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	81.0
BH-18	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	84.5
BH-19	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	83.5
BH-20	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	82.1
BH-21	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	93.0
BH-22	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	90.2
BH-23	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	91.7
BH-24	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	82.8
BH-25	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	86.5
BH-26	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	108
BH-27	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	118
BH-28	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	104
BH-29	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	59.3
BH-30	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	57.4

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-31	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	57.5
BH-32	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	59.5
BH-33	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	58.1
BH-34	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	57.6
BH-35	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	60.2
BH-36	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	61.5
BH-37	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	58.9
BH-38	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	62.7
BH-39	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	58.5
BH-40	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	58.7
BH-41	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	79.1
BH-42	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	73.6
BH-43	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	73.2
BH-44	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	66.4
BH-45	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.8
BH-46	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	26.8
BH-47	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	10.3
BH-48	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	10.5
BH-49	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	10.6
BH-50	5/19/2020	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	11.3
BH-51	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	15.2
BH-52	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	27.8
BH-53	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	16.7
BH-54	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	81.4
BH-55	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	78.6
BH-56	5/19/2020	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	74.1
BH-57	5/19/2020	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	77.2
BH-58	4/8/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	104
BH-59	4/8/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	108
BH-60	4/8/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	114

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-61	4/8/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	111
BH-62	4/8/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	0.00215	<0.00199	0.00467	<0.00199	0.00682	101
BH-63	4/8/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	110
BH-64	4/8/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	112
BH-65	4/8/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	120
BH-66	4/8/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	122
BH-67	4/8/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	115
BH-68	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	218
BH-69	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	119
BH-70	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	149
BH-71	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	115
BH-72	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	159
BH-73	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	181
BH-74	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	260
BH-75	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	211
BH-76	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	180
BH-77	5/27/2020	4'	X	-	<50.3	<50.3	<50.3	<50.3	<0.0000201	<0.0000201	<0.0000201	<0.0000201	<0.0000201	137
BH-78	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	160
BH-79	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	190
BH-80	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	143
BH-81	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	216
BH-82	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	230
BH-83	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	39.4
BH-84	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	179
BH-85	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	119
BH-86	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	165
BH-87	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	195
BH-88	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	194
BH-89	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	126
BH-90	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	181

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-91	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	144
BH-92	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	157
BH-93	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	43.3
BH-94	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	166
BH-95	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	253
BH-96	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	45.0
BH-97	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	69.8
BH-98	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	79.5
BH-99	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	85.6
BH-100	5/29/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	108
BH-101	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	93.7
BH-102	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	112
BH-103	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	84.5
BH-104	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	95.6
BH-105	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	152
BH-106	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	39.9
BH-107	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	57.6
BH-108	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	131
BH-109	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	250
BH-110	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	169
BH-111	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	248
BH-112	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	234
BH-113	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	56.1
BH-114	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	96.0
BH-115	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	105
BH-116	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	99.4
BH-117	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	117
BH-118	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	97.2
BH-119	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	106
BH-120	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	237

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-121	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	154
BH-122	5/27/2020	4'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	233
BH-123	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	180
BH-124	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	169
BH-125	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	197
BH-126	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	200
BH-127	5/29/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	47.1
BH-128	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	112
BH-129	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	50.4
BH-130	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	106
BH-131	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	43.9
BH-132	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	110
BH-133	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	51.2
BH-134	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	106
BH-135	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	35.7
BH-136	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	39.8
BH-137	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	112
BH-138	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	156
BH-139	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	114
BH-140	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	121
BH-141	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	112
BH-142	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	43.0
BH-143	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	202
BH-144	5/29/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	235
BH-145	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	210
BH-146	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	61.4
BH-147	5/29/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	54.4
BH-148	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	92.5
BH-149	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	92.7
BH-150	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	97.3

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-151	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	175
BH-152	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	131
BH-153	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	130
BH-154	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	205
BH-155	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	39.0
BH-156	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	97.8
BH-157	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	74.3
BH-158	5/29/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	108
BH-159	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	78.5
BH-160	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	102
BH-161	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	113
BH-162	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	113
BH-163	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	92.6
BH-164	5/29/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	63.3
BH-165	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	36.9
BH-166	5/27/2020	4'	X	-	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	31.5
BH-167	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	135
BH-168	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	154
BH-169	5/27/2020	4'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	188
BH-170	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	84.5
BH-171	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	99.4
BH-172	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	103
BH-173	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	52.6
BH-174	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	218
BH-175	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	209
BH-176	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	222
BH-177	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	216
BH-178	5/29/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	209
BH-179	5/29/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	78.1
BH-180	5/27/2020	4'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	88.4

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-181	5/27/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	145
BH-182	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	146
BH-183	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	60.9
BH-184	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	274
BH-185	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	294
BH-186	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	181
BH-187	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	207
BH-188	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	181
BH-189	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	202
BH-190	5/27/2020	4'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	107
BH-191	5/27/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	133
BH-192	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	113
BH-193	5/27/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	101
BH-194	5/27/2020	4'	X	-	<50.3	<50.3	<50.3	<50.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	103
BH-195	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	179
BH-196	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	102
BH-197	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	199
BH-198	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	197
BH-199	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	105
BH-200	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	125
BH-201	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	100
BH-202	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	97.4
BH-203	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	98.2
BH-204	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	95.7
BH-205	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	99.8
BH-206	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	88.0
BH-207	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	95.2
BH-208	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	93.7
BH-209	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	102
BH-210	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	98.2

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
BH-211	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	96.0
BH-212	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	102
BH-213	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	100
BH-214	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	99.2
BH-215	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	203
BH-216	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	113
BH-217	6/3/2020	4'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	238
BH-218	6/3/2020	4'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	107
BH-219	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	106
BH-220	6/3/2020	4'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	203
N1SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	7.81
N2SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	8.44
N3SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	47.8
N4SW	5/19/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	102
N5SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	84.6
N6SW	5/19/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	133
N7SW	5/19/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	99.4
N8SW	6/3/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	230
N9SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	232
N10SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	233
E1SW	5/15/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	57.3
E2SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	12.9
E3SW	5/15/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	8.02
E4SW	5/19/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	8.93
E5SW	5/19/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	8.68
E6SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8.75
E7SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8.58
E8SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	9.66
E9SW	6/3/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	252
E10SW	6/3/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	232
E11SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	48.6

Table 2
EOG Resources
Bodacious BSM Federal #1H
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
E12SW	5/27/2020	-	X	-	<50.2	<50.2	<50.2	<50.2	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	146
E13SW	5/27/2020	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	112
E14SW	5/27/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	123
E15SW	5/27/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	122
E16SW	5/27/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	131
S1SW	5/15/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	8.46
S2SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	9.04
S3SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8.43
S4SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	8.87
S5SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8.62
S6SW	5/27/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	132
S7SW	5/27/2020	-	X	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	182
W1SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	0.00205	0.00233	0.00617	0.0106	65.3
W2SW	5/15/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	61.9
W3SW	5/15/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	68.5
W4SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	96.2
W5SW	5/19/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	97.7
W6SW	5/19/2020	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	102
W7SW	5/19/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	8.51
W8SW	5/19/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	8.42
W9SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	200
W10SW	6/3/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	50.8
W11SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	198
W12SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	244
W13SW	6/3/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	224
W14SW	6/3/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	220
W15SW	6/3/2020	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	206
W16SW	6/3/2020	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	205

(-) Not Analyzed

Photos

EOG Resource
Bodacious BSM Federal #1H
Eddy County, New Mexico



View of Remediation – View North/Northeast



View of Remediation – View Northeast

EOG Resource

Bodacious BSM Federal #1H

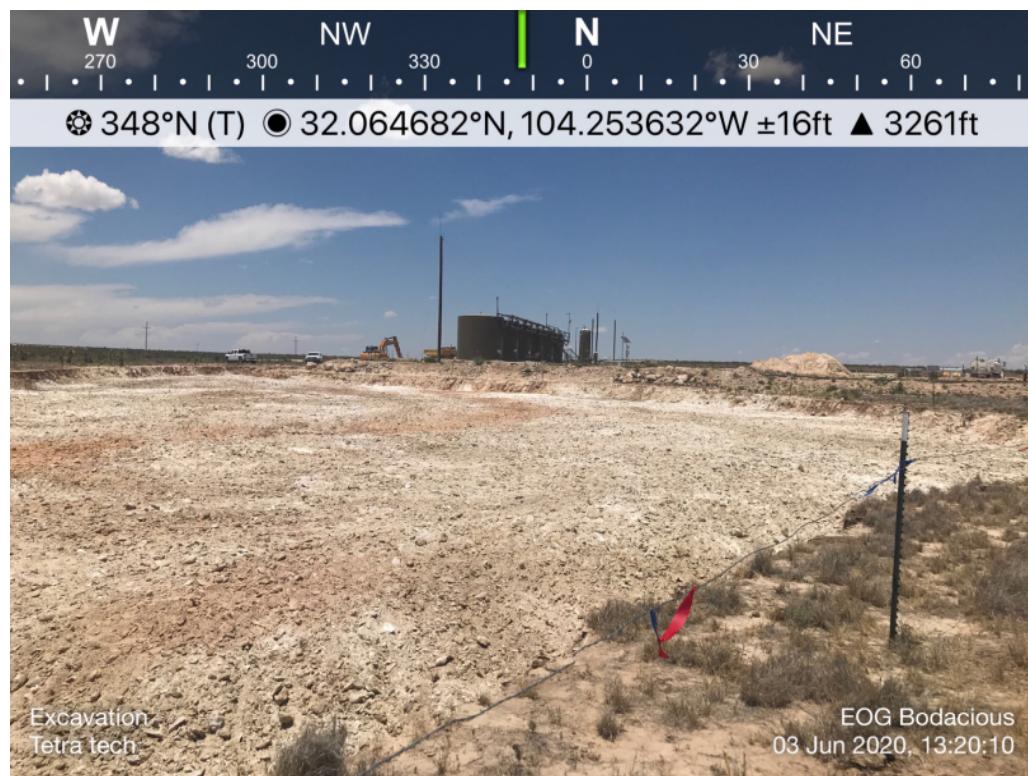
Eddy County, New Mexico



TETRA TECH



View of Remediation – View North



View of Remediation – View North

EOG Resource
Bodacious BSM Federal #1H
Eddy County, New Mexico



TETRA TECH



View of Remediation – View South



View of Remediation – View North/Northwest

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input 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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input 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: _____	Title: _____
Signature: _____ 	Date: _____
email: _____	Telephone: _____

OCD Only	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: James F Kennedy Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

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.

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: James F Kennedy 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 it relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 12/15/2022

Printed Name: Ashley Maxwell Title: Environmental Specialist

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

FEB 10 2015

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED**Release Notification and Corrective Action***NAB1504150159***OPERATOR** Initial Report Final Report

Name of Company: Yates Petroleum Corporation	Contact <i>25575</i>
Address: 104 S. 4 th Street	Telephone No. 575-748-1471
Facility Name Bodacious BSM Federal #1H	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	API No. 30-015-41158
--------------------------	--------------------------	-------------------------

LOCATION OF RELEASE

Unit Letter M	Section 1	Township 26S	Range 26E	Feet from the 510	North/South Line: South	Feet from the 660	East/West Line West	County Eddy

Latitude 32.06567 Longitude 104.25284**NATURE OF RELEASE**

Type of Release Produced Water	Volume of Release 250 B/PW	Volume Recovered 0 B/PW
Source of Release 3 inch water line	Date and Hour of Occurrence 1/21/2015; AM	Date and Hour of Discovery 1/21/2015; AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD II	
By Whom? Bob Asher/Yates Petroleum Corporation	Date and Hour 1/22/2015; AM (Email)	<i>10:33am (Per e-mail)</i>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	<i>AB</i>

If a Watercourse was Impacted, Describe Fully.*

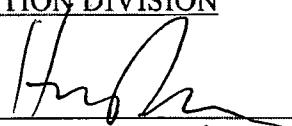
Describe Cause of Problem and Remedial Action Taken.*

The 3 inch water line froze and broke, causing the release. Valves were closed to stop the leak.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 180' X 390'. Valves were closed to stop release. No produced water was recovered. Vertical and horizontal delineation samples will be taken, and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 20) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water: < 25' (approximately 25', per the ChevronTexaco Trend Map), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 20.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by Environmental Specialist: 	
Title: NM Environmental Regulatory Supervisor	Approval Date: <u>2/10/15</u>	Expiration Date: <u>N/A</u>
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines	
Date: February 10, 2015	Attached <input type="checkbox"/>	
Phone: 575-748-4217	SUBMIT REMEDIATION PROPOSAL NO <u>2RP-2802</u>	
LATER THAN: <u>3/10/15</u>		

* Attach Additional Sheets If Necessary

Patterson, Heather, EMNRD

From: Tanna Adams <TCAdams@yatespetroleum.com>
Sent: Tuesday, February 10, 2015 10:06 AM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Bob Asher
Subject: Bodacious BSM Federal #1H
Attachments: Bodacious BSM Federal #1H Initial_012115.pdf

Mr. Bratcher,

Please find attached the C141 Initial for the below listed location:

Bodacious BSM Federal #1H
30-015-41158
Section 1,T26S-R26E
510 FSL & 660 FWL
Eddy County, New Mexico

Thank you,

Tanna Adams
Yates Petroleum Corporation
Environmental Tech
Environmental Department
TCAdams@yatespetroleum.com

This message may contain confidential information and is intended for the named recipient only. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

Patterson, Heather, EMNRD

From: Bob Asher <BobA@yatespetroleum.com>
Sent: Thursday, January 22, 2015 10:33 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Dade, Randy, EMNRD; jamos@blm.gov; dwhitloc@blm.gov
Cc: Amber Cannon; Chase Settle; Katie Parker; Tanna Adams
Subject: Release Notification (Bodacious BSM Federal #1-H)

Yates Petroleum Corporation is reporting a release at the following location (1/21/2015; approximately 11:30 AM).

Bodacious BSM Federal #1-H
30-015-41158
510' FSL & 660' FWL
Section 1, T26S-R26E
Eddy County, New Mexico

Released: Approximately 250 B/PW; Recovered: Approximately 0 B/PW

Cause of release was from a frozen water line failure. Valves on line closed to stop release. The release was outside the battery. A Form C-141 with complete information will be submitted.

Thank you.

Robert Asher
NM Environmental Regulatory Supervisor
Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
575-748-4217 (Office)
575-365-4021 (Cell)

This message may contain confidential information and is intended for the named recipient only. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited. E-mail transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability for any errors or omissions in the contents of this message, which arise as a result of e-mail transmission. If verification is required please request a hard-copy version.

Appendix B



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

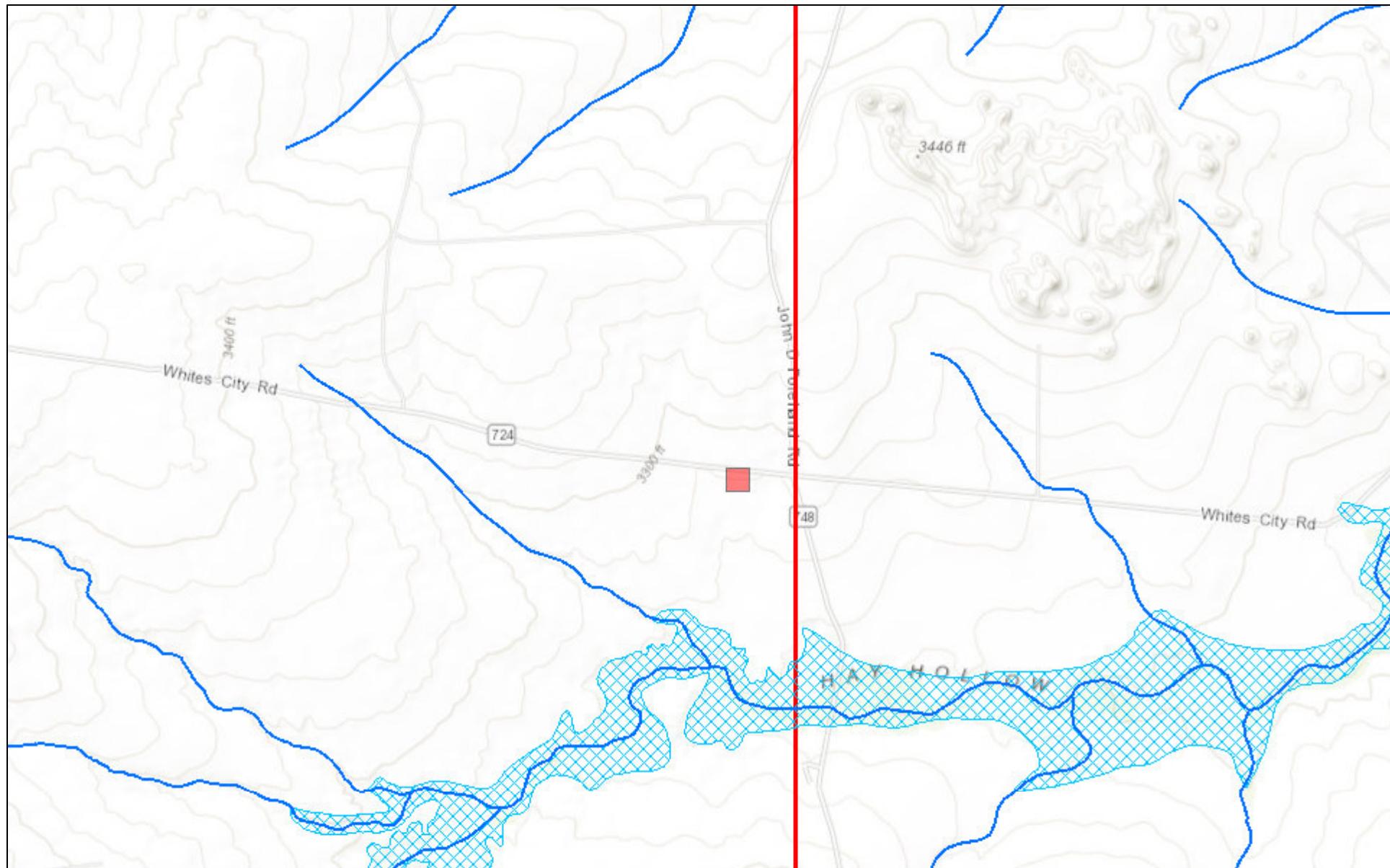
National Water Information System: Mapper

[Help](#) [I](#)



Site Information

New Mexico NFHL Data



June 10, 2020

1:36,112

0 0.3 0.6 1 1.2 mi
0 0.5 1 2 km

FEMA

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

USGS science for a changing world

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: New Mexico GO

Click to hide News Bulletins

- [Please see news on new formats](#)

- UPDATE, 11/2:** The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read [more](#)

- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

- 320234104165201

Minimum number of levels = 1

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

USGS 320234104165201 26S.26E.15.323244

Available data for this site

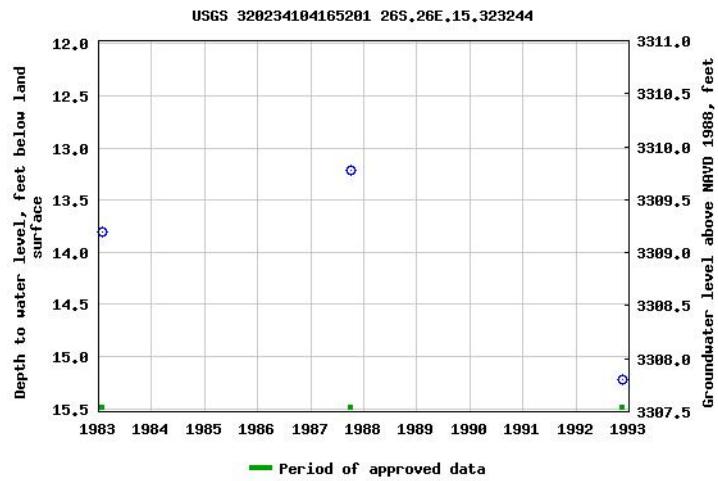
Groundwater: Field measurements

GO

Eddy County, New Mexico
 Hydrologic Unit Code --
 Latitude 32°02'34", Longitude 104°16'52" NAD27
 Land-surface elevation 3,323 feet above NAVD88
 The depth of the well is 22 feet below land surface.
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

- [Table of data](#)
- [Tab-separated data](#)
- [Graph of data](#)
- [Reselect period](#)



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

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hide News Bulletins

- [Please see news on new formats](#)

- UPDATE, 11/2:** The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read [more](#)

- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320234104165201

Minimum number of levels = 1

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

USGS 320234104165201 26S.26E.15.323244

Eddy County, New Mexico

Latitude 32°02'34", Longitude 104°16'52" NAD27

Land-surface elevation 3,323 feet above NAVD88

The depth of the well is 22 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Water-level accuracy	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1983-01-25		D	13.81			2			U		U A
1987-10-08		D	13.21			2			U		U A
1992-11-18		D	15.22			2			S		U A

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

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	Sub-basin	County	Q	Q	Q	Tws	Rng	X	Y	Water				
				64	16	4					Depth Well	Depth Water Column			
C_01351		CUB	ED	4	2	4	19	26S	26E	563772	3543411*	<input type="checkbox"/>	25		
C_01351_X		CUB	ED	4	4	1	20	26S	26E	564581	3543822*	<input type="checkbox"/>	25		
C_01351_X-2		CUB	ED	3	1	3	20	26S	26E	563978	3543413*	<input type="checkbox"/>	25		
C_01887		C	ED	4	4	2	15	26S	26E	568614	3545497*	<input type="checkbox"/>	53	31	22
C_02407		C	ED	1	4	1	08	26S	26E	564347	3547268*	<input type="checkbox"/>	160	22	138
C_02438		CUB	ED	4	2	3	12	26S	26E	571015	3546705*	<input type="checkbox"/>	30		
C_02439		CUB	ED	2	4	2	15	26S	26E	568614	3545697*	<input type="checkbox"/>	30		
C_02791		CUB	ED	4	4	17	26S	26E	565288	3544739*	<input type="checkbox"/>	100			
C_03810 POD1		C	ED	3	1	3	20	26S	26E	563896	3543406	<input type="checkbox"/>	100	15	85
C_03811 POD1		C	ED	4	1	4	19	26S	26E	563746	3543436	<input type="checkbox"/>	46	15	31
C_03812 POD1		C	ED	4	4	1	20	26S	26E	564641	3543737	<input type="checkbox"/>	96	15	81
C_04041 POD1		C	ED	2	1	3	20	26S	26E	564281	3543559	<input type="checkbox"/>	100	60	40
C_04046 POD1		CUB	ED	1	2	3	20	26S	26E	564437	3543647	<input type="checkbox"/>	140	100	40
C_04048 POD1		CUB	ED	2	3	2	20	26S	26E	565061	3543969	<input type="checkbox"/>	140	80	60
C_04091 POD1		CUB	ED	2	3	2	21	26S	26E	566528	3543940	<input type="checkbox"/>	140	85	55
C_04172 POD1		CUB	ED	2	3	2	21	26S	26E	566553	3544004	<input type="checkbox"/>	116	22	94
C_04173 POD1		CUB	ED	4	1	2	21	26S	26E	566612	3544172	<input type="checkbox"/>	117	22	95

Average Depth to Water: **42 feet**

Minimum Depth: **15 feet**

Maximum Depth: **100 feet**

Record Count: 17

PLSS Search:

Township: 26S **Range:** 26E

*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.

WATER COLUMN/ AVERAGE DEPTH
TO WATER

High Karst

EOG Resources

Bodacious BSM Federal #1H

Legend

- Bodacious BSM Federal #1H
- High
- Low
- Medium

Bodacious BSM Federal #1H



Water Well Data
Average Depth to Groundwater (ft)
EOG- Bodacious BSM Fed. 1
Eddy County, New Mexico

25 South			25 East		
6	5 30	4 46	3	2	1
7	8	9	10	11	12
Artesia			43	39	
18	17	16	15	14	13
19	20	21	22	23	24
				70	
30	29	28	27	26	25
31	32	33	34	35	36

25 South			26 East		
6	125	5	4	3 45	2
7	60	8	9 45	10	11
	60				12
18	17	16	15	14	13
19	20	21	22	23	24
			118		
30	29	28	27	26	25
31	32	33	34	35	36

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

26 South			25 East		
6	5	4	3	2	1
7	8	9	10	11	12
				150	
18	17	16	15	14	13
10	29	6			
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			26 East		
6	5	4	3	2	1 Site
7	8 22	9	10	11	12
	22				
18	17	16	15 15	14	13
			31		
19	20 60	21 85	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			27 East		
6	5	4	3	2	1
		12			
7	8	9	10	11	12
18	17	16	15	14	13
					35
19	20	21	22	23	24
				41	
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

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

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

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

Appendix C

(28)

BLM SERIAL #:

COMPANY REFERENCE:

3.3 Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains bristlegrass (<i>Setaria macrostachya</i>)	2.0

*Pounds of pure live seed: Pounds of seed \times percent purity \times percent germination = pounds pure live seed

Appendix D



Certificate of Analysis Summary 661878

Tetra Tech- Midland, Midland, TX

Page 48 of 728

Project Name: EOG Resources Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Mon 05.18.2020 15:49

Contact: Brittany Long

Report Date: 05.22.2020 08:11

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	661878-001 Bottom Hole-1 (10')	661878-002 Bottom Hole-2 (10')	661878-003 Bottom Hole-3 (10')	661878-004 Bottom Hole-4 (10')	661878-005 Bottom Hole-5 (10')	661878-006 Bottom Hole-6 (10')
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.19.2020 12:30 05.19.2020 17:51 mg/kg RL	05.19.2020 12:30 05.19.2020 18:12 mg/kg RL	05.19.2020 12:30 05.19.2020 18:32 mg/kg RL	05.19.2020 12:30 05.19.2020 18:53 mg/kg RL	05.19.2020 12:30 05.19.2020 19:13 mg/kg RL	05.19.2020 12:30 05.19.2020 19:34 mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00399 0.00399	<0.00397 0.00397	<0.00397 0.00397	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.19.2020 13:15 05.19.2020 13:45 mg/kg RL	05.19.2020 13:15 05.19.2020 14:02 mg/kg RL	05.19.2020 13:15 05.19.2020 14:08 mg/kg RL	05.19.2020 13:15 05.19.2020 14:14 mg/kg RL	05.19.2020 13:15 05.19.2020 14:20 mg/kg RL	05.19.2020 13:15 05.19.2020 14:37 mg/kg RL
Chloride		11.7 4.97	11.4 4.95	10.9 4.95	10.6 5.00	61.3 5.03	65.9 5.04
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.18.2020 17:00 05.18.2020 22:37 mg/kg RL	05.18.2020 17:00 05.18.2020 23:40 mg/kg RL	05.18.2020 17:00 05.19.2020 00:01 mg/kg RL	05.18.2020 17:00 05.19.2020 00:22 mg/kg RL	05.18.2020 17:00 05.19.2020 00:43 mg/kg RL	05.18.2020 17:00 05.19.2020 01:04 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 661878

Tetra Tech- Midland, Midland, TX

Page 49 of 728

Project Name: EOG Resources Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Mon 05.18.2020 15:49

Contact: Brittany Long

Report Date: 05.22.2020 08:11

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	661878-007 Bottom Hole-7 (10')	661878-008 Bottom Hole-8 (10')	661878-009 Bottom Hole-9 (10')	661878-010 Bottom Hole-10 (10')	661878-011 Bottom Hole-11 (10')	661878-012 Bottom Hole-12 (10')
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.19.2020 12:30 05.19.2020 19:55 mg/kg RL	05.19.2020 12:30 05.19.2020 21:20 mg/kg RL	05.19.2020 12:30 05.19.2020 21:40 mg/kg RL	05.19.2020 12:30 05.19.2020 22:01 mg/kg RL	05.19.2020 12:30 05.19.2020 22:21 mg/kg RL	05.19.2020 12:30 05.19.2020 22:42 mg/kg RL
Benzene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00402 0.00402	<0.00396 0.00396	<0.00401 0.00401	<0.00401 0.00401	<0.00398 0.00398	<0.00397 0.00397
o-Xylene		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.19.2020 13:15 05.19.2020 14:42 mg/kg RL	05.19.2020 13:15 05.19.2020 14:48 mg/kg RL	05.19.2020 13:15 05.19.2020 14:54 mg/kg RL	05.19.2020 13:15 05.19.2020 15:00 mg/kg RL	05.19.2020 13:15 05.19.2020 15:05 mg/kg RL	05.19.2020 13:15 05.19.2020 15:22 mg/kg RL
Chloride		54.5 5.05	63.3 4.97	8.09 4.99	7.85 5.02	7.72 4.97	8.49 5.01
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.18.2020 17:00 05.19.2020 01:25 mg/kg RL	05.18.2020 17:00 05.19.2020 01:47 mg/kg RL	05.18.2020 17:00 05.19.2020 02:08 mg/kg RL	05.18.2020 17:00 05.19.2020 02:28 mg/kg RL	05.18.2020 17:00 05.19.2020 03:10 mg/kg RL	05.18.2020 17:00 05.19.2020 03:31 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9

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

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

Jessica Kramer
Project Manager

**Certificate of Analysis Summary 661878**

Tetra Tech- Midland, Midland, TX

Page 50 of 728

Project Name: EOG Resources Bodacious BSM Federal #1H**Project Id:** 212C-MD-02190**Date Received in Lab:** Mon 05.18.2020 15:49**Contact:** Brittany Long**Report Date:** 05.22.2020 08:11**Project Location:** Eddy County, New Mexico**Project Manager:** Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	661878-013 Bottom Hole-13 (10')	661878-014 West Sidewall-1	661878-015 West Sidewall-2	661878-016 West Sidewall-3	661878-017 South Sidewall-1	661878-018 South Sidewall-2
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.19.2020 08:00 05.19.2020 18:12 mg/kg	05.19.2020 08:00 05.19.2020 19:53 RL	05.19.2020 08:00 05.19.2020 20:13 mg/kg	05.19.2020 08:00 05.19.2020 20:33 RL	05.19.2020 08:00 05.19.2020 20:53 mg/kg	05.19.2020 08:00 05.19.2020 21:14 RL
Benzene	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Toluene	<0.00200 0.00200	0.00205 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Ethylbenzene	<0.00200 0.00200	0.00233 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
m,p-Xylenes	<0.00399 0.00399	0.00405 0.00398	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00396 0.00396	<0.00396 0.00396
o-Xylene	<0.00200 0.00200	0.00212 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Total Xylenes	<0.00200 0.00200	0.00617 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Total BTEX	<0.00200 0.00200	0.0106 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.19.2020 13:15 05.19.2020 15:28 mg/kg	05.21.2020 10:50 05.21.2020 17:00 mg/kg	05.21.2020 10:50 05.21.2020 17:06 mg/kg	05.21.2020 10:50 05.21.2020 17:12 mg/kg	05.21.2020 10:50 05.21.2020 17:17 mg/kg	05.21.2020 10:50 05.21.2020 17:35 mg/kg
Chloride	8.17 4.99	65.3 4.99	61.9 4.99	68.5 5.05	8.46 4.99	9.04 4.98	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.18.2020 17:00 05.19.2020 03:52 mg/kg	05.18.2020 17:00 05.19.2020 04:13 RL	05.18.2020 17:00 05.19.2020 04:34 mg/kg	05.18.2020 17:00 05.19.2020 04:55 RL	05.18.2020 17:00 05.19.2020 05:16 mg/kg	05.18.2020 17:00 05.19.2020 05:37 RL
Gasoline Range Hydrocarbons (GRO)	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	
Diesel Range Organics (DRO)	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	
Total TPH	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	

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

Jessica Kramer
Project Manager

**Certificate of Analysis Summary 661878**

Tetra Tech- Midland, Midland, TX

Page 51 of 728

Project Name: EOG Resources Bodacious BSM Federal #1H**Project Id:** 212C-MD-02190**Date Received in Lab:** Mon 05.18.2020 15:49**Contact:** Brittany Long**Report Date:** 05.22.2020 08:11**Project Location:** Eddy County, New Mexico**Project Manager:** Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	661878-019 South Sidewall-3	661878-020 East Sidewall-1	661878-021 East Sidewall-2	661878-022 East Sidewall-3	661878-023 North Sidewall-1	661878-024 North Sidewall-2
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.19.2020 08:00 05.19.2020 22:34 mg/kg RL	05.19.2020 08:00 05.19.2020 22:54 mg/kg RL	05.19.2020 08:00 05.19.2020 23:14 mg/kg RL	05.19.2020 08:00 05.19.2020 23:34 mg/kg RL	05.19.2020 08:00 05.19.2020 23:55 mg/kg RL	05.19.2020 08:00 05.20.2020 00:15 mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00401 0.00401	<0.00403 0.00403	<0.00396 0.00396	<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.21.2020 10:50 05.21.2020 17:40 mg/kg RL	05.21.2020 10:50 05.21.2020 17:46 mg/kg RL	05.19.2020 14:00 05.21.2020 09:30 mg/kg RL	05.19.2020 14:00 05.21.2020 09:36 mg/kg RL	05.19.2020 14:00 05.21.2020 09:41 mg/kg RL	05.19.2020 14:00 05.21.2020 09:47 mg/kg RL
Chloride		8.43 5.03	57.3 5.00	12.9 4.99	8.02 4.99	7.81 4.99	8.44 5.00
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.18.2020 17:00 05.19.2020 05:58 mg/kg RL	05.18.2020 17:00 05.19.2020 06:19 mg/kg RL	05.19.2020 11:00 05.19.2020 13:52 mg/kg RL	05.19.2020 11:00 05.19.2020 14:12 mg/kg RL	05.19.2020 11:00 05.19.2020 14:32 mg/kg RL	05.19.2020 11:00 05.19.2020 14:51 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0

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

Jessica Kramer
Project Manager



Analytical Report 661878

for

Tetra Tech- Midland

Project Manager: Brittany Long

EOG Resources Bodacious BSM Federal #1H

212C-MD-02190

05.22.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.22.2020

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **661878**

EOG Resources Bodacious BSM Federal #1H

Project Address: Eddy County, New Mexico

Brittany Long:

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) 661878. 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. 661878 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 Manager

A Small Business and Minority Company

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



Sample Cross Reference 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole-1 (10')	S	05.15.2020 00:00		661878-001
Bottom Hole-2 (10')	S	05.15.2020 00:00		661878-002
Bottom Hole-3 (10')	S	05.15.2020 00:00		661878-003
Bottom Hole-4 (10')	S	05.15.2020 00:00		661878-004
Bottom Hole-5 (10')	S	05.15.2020 00:00		661878-005
Bottom Hole-6 (10')	S	05.15.2020 00:00		661878-006
Bottom Hole-7 (10')	S	05.15.2020 00:00		661878-007
Bottom Hole-8 (10')	S	05.15.2020 00:00		661878-008
Bottom Hole-9 (10')	S	05.15.2020 00:00		661878-009
Bottom Hole-10 (10')	S	05.15.2020 00:00		661878-010
Bottom Hole-11 (10')	S	05.15.2020 00:00		661878-011
Bottom Hole-12 (10')	S	05.15.2020 00:00		661878-012
Bottom Hole-13 (10')	S	05.15.2020 00:00		661878-013
West Sidewall-1	S	05.15.2020 00:00		661878-014
West Sidewall-2	S	05.15.2020 00:00		661878-015
West Sidewall-3	S	05.15.2020 00:00		661878-016
South Sidewall-1	S	05.15.2020 00:00		661878-017
South Sidewall-2	S	05.15.2020 00:00		661878-018
South Sidewall-3	S	05.15.2020 00:00		661878-019
East Sidewall-1	S	05.15.2020 00:00		661878-020
East Sidewall-2	S	05.15.2020 00:00		661878-021
East Sidewall-3	S	05.15.2020 00:00		661878-022
North Sidewall-1	S	05.15.2020 00:00		661878-023
North Sidewall-2	S	05.15.2020 00:00		661878-024

Client Name: Tetra Tech- Midland**Project Name: EOG Resources Bodacious BSM Federal #1H**Project ID: 212C-MD-02190
Work Order Number(s): 661878Report Date: 05.22.2020
Date Received: 05.18.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3126343 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 661878-001,661878-002,661878-004,661878-009,661878-010,661878-019,661878-012,661878-013,661878-017,661878-018,661878-011.

Batch: LBA-3126457 BTEX by EPA 8021B

Lab Sample ID 661878-013 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 661878-013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Samples affected are: 7703699-1-BLK.

Batch: LBA-3126484 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 661822-002 SD.



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-1 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-001

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.7	4.97	mg/kg	05.19.2020 13:45		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.18.2020 22:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.18.2020 22:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.18.2020 22:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.18.2020 22:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	67	%	70-130	05.18.2020 22:37	**
o-Terphenyl	84-15-1	74	%	70-130	05.18.2020 22:37	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-1 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-001

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.19.2020 17:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.19.2020 17:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.19.2020 17:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.19.2020 17:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.19.2020 17:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.19.2020 17:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.19.2020 17:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.19.2020 17:51		
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.19.2020 17:51		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-2 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-002

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.4	4.95	mg/kg	05.19.2020 14:02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.18.2020 23:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.18.2020 23:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.18.2020 23:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.18.2020 23:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	65	%	70-130	05.18.2020 23:40	**	
o-Terphenyl	84-15-1	72	%	70-130	05.18.2020 23:40		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-2 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-002

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.19.2020 18:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.19.2020 18:12		
1,4-Difluorobenzene	540-36-3	115	%	70-130	05.19.2020 18:12		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-3 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-003

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.9	4.95	mg/kg	05.19.2020 14:08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.19.2020 00:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.19.2020 00:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.19.2020 00:01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.19.2020 00:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	05.19.2020 00:01	
o-Terphenyl	84-15-1	78	%	70-130	05.19.2020 00:01	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-3 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-003

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 18:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 18:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 18:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.19.2020 18:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 18:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 18:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 18:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.19.2020 18:32		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.19.2020 18:32		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-4 (10')** Matrix: Soil Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-004 Date Collected: 05.15.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.19.2020 13:15 Basis: Wet Weight
 Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.6	5.00	mg/kg	05.19.2020 14:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.18.2020 17:00 Basis: Wet Weight
 Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 00:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 00:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 00:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 00:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	65	%	70-130	05.19.2020 00:22	**
o-Terphenyl	84-15-1	73	%	70-130	05.19.2020 00:22	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-4 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-004

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 18:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 18:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 18:53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.19.2020 18:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 18:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 18:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 18:53	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.19.2020 18:53		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.19.2020 18:53		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-5 (10')** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-005 Date Collected:05.15.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.19.2020 13:15 Basis: Wet Weight
 Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.3	5.03	mg/kg	05.19.2020 14:20		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.18.2020 17:00 Basis: Wet Weight
 Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 00:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 00:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 00:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 00:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.19.2020 00:43	
o-Terphenyl	84-15-1	97	%	70-130	05.19.2020 00:43	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-5 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-005

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 19:13	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 19:13	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 19:13	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.19.2020 19:13	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 19:13	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 19:13	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 19:13	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.19.2020 19:13		
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.19.2020 19:13		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-6 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-006

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.9	5.04	mg/kg	05.19.2020 14:37		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.19.2020 01:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.19.2020 01:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.19.2020 01:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.19.2020 01:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	84	%	70-130	05.19.2020 01:04		
o-Terphenyl	84-15-1	93	%	70-130	05.19.2020 01:04		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-6 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-006

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 19:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 19:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 19:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.19.2020 19:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 19:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 19:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 19:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.19.2020 19:34		
1,4-Difluorobenzene	540-36-3	114	%	70-130	05.19.2020 19:34		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-7 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-007

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.5	5.05	mg/kg	05.19.2020 14:42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.19.2020 01:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.19.2020 01:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.19.2020 01:25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.19.2020 01:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.19.2020 01:25	
o-Terphenyl	84-15-1	99	%	70-130	05.19.2020 01:25	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-7 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-007

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.19.2020 19:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.19.2020 19:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.19.2020 19:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.19.2020 19:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.19.2020 19:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.19.2020 19:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.19.2020 19:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.19.2020 19:55		
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.19.2020 19:55		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-8 (10')** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-008 Date Collected:05.15.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.19.2020 13:15 Basis: Wet Weight
 Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.3	4.97	mg/kg	05.19.2020 14:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.18.2020 17:00 Basis: Wet Weight
 Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 01:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 01:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 01:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 01:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-130	05.19.2020 01:47		
o-Terphenyl	84-15-1	103	%	70-130	05.19.2020 01:47		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-8 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-008

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 21:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 21:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 21:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.19.2020 21:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 21:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 21:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 21:20	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.19.2020 21:20		
4-Bromofluorobenzene	460-00-4	105	%	70-130	05.19.2020 21:20		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-9 (10')** Matrix: Soil Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-009 Date Collected: 05.15.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.19.2020 13:15 Basis: Wet Weight
 Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.09	4.99	mg/kg	05.19.2020 14:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.18.2020 17:00 Basis: Wet Weight
 Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 02:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 02:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 02:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 02:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	56	%	70-130	05.19.2020 02:08	**	
o-Terphenyl	84-15-1	79	%	70-130	05.19.2020 02:08		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-9 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-009

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 21:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 21:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 21:40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.19.2020 21:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 21:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 21:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 21:40	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.19.2020 21:40		
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.19.2020 21:40		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-10 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-010

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.85	5.02	mg/kg	05.19.2020 15:00		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.19.2020 02:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.19.2020 02:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.19.2020 02:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.19.2020 02:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	55	%	70-130	05.19.2020 02:28	**
o-Terphenyl	84-15-1	81	%	70-130	05.19.2020 02:28	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-10 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-010

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 22:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 22:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 22:01	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.19.2020 22:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 22:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 22:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 22:01	U	1
Surrogate							
4-Bromofluorobenzene	460-00-4	118	%	70-130	05.19.2020 22:01		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.19.2020 22:01		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-11 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-011

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.72	4.97	mg/kg	05.19.2020 15:05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 03:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 03:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 03:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 03:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	54	%	70-130	05.19.2020 03:10	**	
o-Terphenyl	84-15-1	81	%	70-130	05.19.2020 03:10		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-11 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-011

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.19.2020 22:21	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.19.2020 22:21	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.19.2020 22:21	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.19.2020 22:21	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.19.2020 22:21	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.19.2020 22:21	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.19.2020 22:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	05.19.2020 22:21		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.19.2020 22:21		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-12 (10')** Matrix: **Soil** Date Received:05.18.2020 15:49
Lab Sample Id: 661878-012 Date Collected:05.15.2020 00:00
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: SPC % Moisture:
Analyst: SPC Date Prep: 05.19.2020 13:15 Basis: Wet Weight
Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.49	5.01	mg/kg	05.19.2020 15:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.18.2020 17:00 Basis: Wet Weight
Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.19.2020 03:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.19.2020 03:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.19.2020 03:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.19.2020 03:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	56	%	70-130	05.19.2020 03:31	**	
o-Terphenyl	84-15-1	84	%	70-130	05.19.2020 03:31		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-12 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-012

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 12:30

Basis: **Wet Weight**

Seq Number: 3126446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 22:42	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 22:42	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 22:42	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.19.2020 22:42	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 22:42	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 22:42	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 22:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	05.19.2020 22:42		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.19.2020 22:42		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-13 (10')**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-013

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 13:15

Basis: **Wet Weight**

Seq Number: 3126611

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.17	4.99	mg/kg	05.19.2020 15:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.19.2020 03:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.19.2020 03:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.19.2020 03:52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.19.2020 03:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	52	%	70-130	05.19.2020 03:52	**	
o-Terphenyl	84-15-1	77	%	70-130	05.19.2020 03:52		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **Bottom Hole-13 (10')**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-013

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 08:00

Basis: **Wet Weight**

Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 18:12	UX	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.19.2020 18:12	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 18:12	UX	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 18:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	05.19.2020 18:12		
1,4-Difluorobenzene	540-36-3	102	%	70-130	05.19.2020 18:12		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **West Sidewall-1**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-014

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **CHE**

% Moisture:

Analyst: **CHE**

Date Prep: 05.21.2020 10:50

Basis: **Wet Weight**

Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	65.3	4.99	mg/kg	05.21.2020 17:00		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 04:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 04:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 04:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 04:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.19.2020 04:13	
o-Terphenyl	84-15-1	94	%	70-130	05.19.2020 04:13	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **West Sidewall-1**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-014

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 08:00

Basis: **Wet Weight**

Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.19.2020 19:53	U	1
Toluene	108-88-3	0.00205	0.00199	mg/kg	05.19.2020 19:53		1
Ethylbenzene	100-41-4	0.00233	0.00199	mg/kg	05.19.2020 19:53		1
m,p-Xylenes	179601-23-1	0.00405	0.00398	mg/kg	05.19.2020 19:53		1
o-Xylene	95-47-6	0.00212	0.00199	mg/kg	05.19.2020 19:53		1
Total Xylenes	1330-20-7	0.00617	0.00199	mg/kg	05.19.2020 19:53		1
Total BTEX		0.0106	0.00199	mg/kg	05.19.2020 19:53		1
Surrogate							
4-Bromofluorobenzene	460-00-4	83	%	70-130	05.19.2020 19:53		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.19.2020 19:53		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **West Sidewall-2**

Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-015

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **CHE**

% Moisture:

Analyst: **CHE**

Date Prep: 05.21.2020 10:50

Basis: **Wet Weight**

Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.9	4.99	mg/kg	05.21.2020 17:06		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 04:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 04:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 04:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 04:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.19.2020 04:34	
o-Terphenyl	84-15-1	95	%	70-130	05.19.2020 04:34	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **West Sidewall-2**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: **661878-015**Date Collected: **05.15.2020 00:00**Analytical Method: **BTEX by EPA 8021B**Prep Method: **SW5035A**Tech: **KTL**

% Moisture:

Analyst: **KTL**Date Prep: **05.19.2020 08:00**Basis: **Wet Weight**Seq Number: **3126457**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 20:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 20:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 20:13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.19.2020 20:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 20:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 20:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 20:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.19.2020 20:13		
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.19.2020 20:13		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **West Sidewall-3**

Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-016

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **CHE**

% Moisture:

Analyst: **CHE**

Date Prep: 05.21.2020 10:50

Basis: **Wet Weight**

Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	68.5	5.05	mg/kg	05.21.2020 17:12		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.19.2020 04:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.19.2020 04:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.19.2020 04:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.19.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.19.2020 04:55	
o-Terphenyl	84-15-1	94	%	70-130	05.19.2020 04:55	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **West Sidewall-3**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-016

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 08:00

Basis: **Wet Weight**

Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.19.2020 20:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.19.2020 20:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.19.2020 20:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.19.2020 20:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.19.2020 20:33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.19.2020 20:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.19.2020 20:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	91	%	70-130	05.19.2020 20:33		
1,4-Difluorobenzene	540-36-3	100	%	70-130	05.19.2020 20:33		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **South Sidewall-1** Matrix: **Soil** Date Received:05.18.2020 15:49
Lab Sample Id: 661878-017 Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 05.21.2020 10:50 Basis: Wet Weight
Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.46	4.99	mg/kg	05.21.2020 17:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.18.2020 17:00 Basis: Wet Weight
Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.19.2020 05:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.19.2020 05:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.19.2020 05:16	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.19.2020 05:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	56	%	70-130	05.19.2020 05:16	**
o-Terphenyl	84-15-1	82	%	70-130	05.19.2020 05:16	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **South Sidewall-1** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-017 Date Collected: 05.15.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.19.2020 08:00 Basis: Wet Weight
 Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 20:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 20:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 20:53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.19.2020 20:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 20:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 20:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 20:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.19.2020 20:53		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.19.2020 20:53		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **South Sidewall-2**

Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-018

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **CHE**

% Moisture:

Analyst: **CHE**

Date Prep: 05.21.2020 10:50

Basis: **Wet Weight**

Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.04	4.98	mg/kg	05.21.2020 17:35		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 05:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 05:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	58	%	70-130	05.19.2020 05:37	**
o-Terphenyl	84-15-1	83	%	70-130	05.19.2020 05:37	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **South Sidewall-2** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-018 Date Collected: 05.15.2020 00:00
 Analytical Method: **BTEX by EPA 8021B** Prep Method: **SW5035A**
 Tech: **KTL** % Moisture:
 Analyst: **KTL** Date Prep: **05.19.2020 08:00** Basis: **Wet Weight**
 Seq Number: **3126457**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 21:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 21:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 21:14	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.19.2020 21:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 21:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 21:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 21:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.19.2020 21:14		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.19.2020 21:14		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **South Sidewall-3** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-019 Date Collected: 05.15.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.43	5.03	mg/kg	05.21.2020 17:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 05:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 05:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 05:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 05:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	59	%	70-130	05.19.2020 05:58	**	
o-Terphenyl	84-15-1	83	%	70-130	05.19.2020 05:58		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **South Sidewall-3** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-019 Date Collected: 05.15.2020 00:00
 Analytical Method: **BTEX by EPA 8021B** Prep Method: **SW5035A**
 Tech: **KTL** % Moisture:
 Analyst: **KTL** Date Prep: **05.19.2020 08:00** Basis: **Wet Weight**
 Seq Number: **3126457**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 22:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 22:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 22:34	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.19.2020 22:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 22:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 22:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 22:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	05.19.2020 22:34		
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.19.2020 22:34		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **East Sidewall-1**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-020

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **CHE**

% Moisture:

Analyst: **CHE**

Date Prep: 05.21.2020 10:50

Basis: **Wet Weight**

Seq Number: 3126690

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.3	5.00	mg/kg	05.21.2020 17:46		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.18.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126343

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.19.2020 06:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.19.2020 06:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.19.2020 06:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.19.2020 06:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	05.19.2020 06:19	
o-Terphenyl	84-15-1	100	%	70-130	05.19.2020 06:19	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **East Sidewall-1**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-020

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 08:00

Basis: **Wet Weight**

Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.19.2020 22:54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.19.2020 22:54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.19.2020 22:54	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.19.2020 22:54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.19.2020 22:54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.19.2020 22:54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.19.2020 22:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	77	%	70-130	05.19.2020 22:54		
1,4-Difluorobenzene	540-36-3	102	%	70-130	05.19.2020 22:54		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **East Sidewall-2** Matrix: **Soil** Date Received:05.18.2020 15:49
Lab Sample Id: 661878-021 Date Collected:05.15.2020 00:00
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: SPC % Moisture:
Analyst: SPC Date Prep: 05.19.2020 14:00 Basis: Wet Weight
Seq Number: 3126637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.9	4.99	mg/kg	05.21.2020 09:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.19.2020 11:00 Basis: Wet Weight
Seq Number: 3126484

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 13:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 13:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 13:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 13:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.19.2020 13:52	
o-Terphenyl	84-15-1	97	%	70-130	05.19.2020 13:52	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **East Sidewall-2**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-021

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 08:00

Basis: **Wet Weight**

Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.19.2020 23:14	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.19.2020 23:14	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.19.2020 23:14	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.19.2020 23:14	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.19.2020 23:14	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.19.2020 23:14	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.19.2020 23:14	U	1
Surrogate							
4-Bromofluorobenzene	460-00-4	124	%	70-130	05.19.2020 23:14		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.19.2020 23:14		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX

EOG Resources Bodacious BSM Federal #1H

Sample Id: **East Sidewall-3**

Matrix: **Soil**

Date Received: 05.18.2020 15:49

Lab Sample Id: 661878-022

Date Collected: 05.15.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.19.2020 14:00

Basis: **Wet Weight**

Seq Number: 3126637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.02	4.99	mg/kg	05.21.2020 09:36		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.19.2020 11:00

Basis: **Wet Weight**

Seq Number: 3126484

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.19.2020 14:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.19.2020 14:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.19.2020 14:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.19.2020 14:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.19.2020 14:12	
o-Terphenyl	84-15-1	82	%	70-130	05.19.2020 14:12	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **East Sidewall-3**Matrix: **Soil**

Date Received:05.18.2020 15:49

Lab Sample Id: 661878-022

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.19.2020 08:00

Basis: **Wet Weight**

Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.19.2020 23:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.19.2020 23:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.19.2020 23:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.19.2020 23:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.19.2020 23:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.19.2020 23:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.19.2020 23:34	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.19.2020 23:34		
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.19.2020 23:34		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **North Sidewall-1** Matrix: **Soil** Date Received:05.18.2020 15:49
Lab Sample Id: 661878-023 Date Collected:05.15.2020 00:00
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: SPC % Moisture:
Analyst: SPC Date Prep: 05.19.2020 14:00 Basis: Wet Weight
Seq Number: 3126637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.81	4.99	mg/kg	05.21.2020 09:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.19.2020 11:00 Basis: Wet Weight
Seq Number: 3126484

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 14:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 14:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 14:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 14:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.19.2020 14:32	
o-Terphenyl	84-15-1	84	%	70-130	05.19.2020 14:32	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **North Sidewall-1** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-023 Date Collected: 05.15.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.19.2020 08:00 Basis: Wet Weight
 Seq Number: 3126457

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.19.2020 23:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.19.2020 23:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.19.2020 23:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.19.2020 23:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.19.2020 23:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.19.2020 23:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.19.2020 23:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	116	%	70-130	05.19.2020 23:55		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.19.2020 23:55		



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **North Sidewall-2** Matrix: **Soil** Date Received:05.18.2020 15:49
Lab Sample Id: 661878-024 Date Collected:05.15.2020 00:00
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: SPC % Moisture:
Analyst: SPC Date Prep: 05.19.2020 14:00 Basis: Wet Weight
Seq Number: 3126637

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.44	5.00	mg/kg	05.21.2020 09:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 05.19.2020 11:00 Basis: Wet Weight
Seq Number: 3126484

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.19.2020 14:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.19.2020 14:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.19.2020 14:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.19.2020 14:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.19.2020 14:51	
o-Terphenyl	84-15-1	83	%	70-130	05.19.2020 14:51	



Certificate of Analytical Results 661878

Tetra Tech- Midland, Midland, TX
EOG Resources Bodacious BSM Federal #1H

Sample Id: **North Sidewall-2** Matrix: **Soil** Date Received:05.18.2020 15:49
 Lab Sample Id: 661878-024 Date Collected: 05.15.2020 00:00
 Analytical Method: **BTEX by EPA 8021B** Prep Method: **SW5035A**
 Tech: **KTL** % Moisture:
 Analyst: **KTL** Date Prep: **05.19.2020 08:00** Basis: **Wet Weight**
 Seq Number: **3126457**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.20.2020 00:15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.20.2020 00:15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.20.2020 00:15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.20.2020 00:15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.20.2020 00:15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.20.2020 00:15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.20.2020 00:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.20.2020 00:15		
4-Bromofluorobenzene	460-00-4	130	%	70-130	05.20.2020 00:15		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



QC Summary 661878

Tetra Tech- Midland
EOG Resources Bodacious BSM Federal #1H

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126611	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703642-1-BLK	LCS Sample Id: 7703642-1-BKS				Date Prep: 05.19.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	237	95	236	94	90-110	0	20
								mg/kg	05.19.2020 13:34

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126637	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703648-1-BLK	LCS Sample Id: 7703648-1-BKS				Date Prep: 05.19.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	254	102	252	101	90-110	1	20
								mg/kg	05.21.2020 08:56

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126690	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703820-1-BLK	LCS Sample Id: 7703820-1-BKS				Date Prep: 05.21.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	248	99	247	99	90-110	0	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126611	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	661878-001	MS Sample Id: 661878-001 S				Date Prep: 05.19.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	11.7	249	253	97	243	93	90-110	4	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126611	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	661878-011	MS Sample Id: 661878-011 S				Date Prep: 05.19.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	7.72	249	238	92	238	92	90-110	0	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126637	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	661903-001	MS Sample Id: 661903-001 S				Date Prep: 05.19.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	16.3	248	275	104	272	103	90-110	1	20

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



QC Summary 661878

Tetra Tech- Midland
EOG Resources Bodacious BSM Federal #1H

Analytical Method:	Inorganic Anions by EPA 300/300.1								Prep Method:	E300P	
Seq Number:	3126637								Date Prep:	05.19.2020	
Parent Sample Id:	661904-001								MSD Sample Id:	661904-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Chloride	8.98	249	250	97	244	94	90-110	2	20	mg/kg	05.21.2020 09:17

Analytical Method:	Inorganic Anions by EPA 300/300.1								Prep Method:	E300P	
Seq Number:	3126690								Date Prep:	05.21.2020	
Parent Sample Id:	662026-004								MSD Sample Id:	662026-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Chloride	264	249	519	102	539	110	90-110	4	20	mg/kg	05.21.2020 16:49

Analytical Method:	TPH By SW8015 Mod								Prep Method:	SW8015P	
Seq Number:	3126343								Date Prep:	05.18.2020	
MB Sample Id:	7703591-1-BLK								LCSD Sample Id:	7703591-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	878	88	877	88	70-130	0	20	mg/kg	05.18.2020 21:54
Diesel Range Organics (DRO)	<50.0	1000	951	95	955	96	70-130	0	20	mg/kg	05.18.2020 21:54
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1-Chlorooctane	86		87		88		70-130			%	05.18.2020 21:54
o-Terphenyl	101		96		96		70-130			%	05.18.2020 21:54

Analytical Method:	TPH By SW8015 Mod								Prep Method:	SW8015P	
Seq Number:	3126484								Date Prep:	05.19.2020	
MB Sample Id:	7703661-1-BLK								LCSD Sample Id:	7703661-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1000	100	70-130	10	20	mg/kg	05.19.2020 11:21
Diesel Range Organics (DRO)	<50.0	1000	1040	104	948	95	70-130	9	20	mg/kg	05.19.2020 11:21
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1-Chlorooctane	104		129		120		70-130			%	05.19.2020 11:21
o-Terphenyl	109		125		111		70-130			%	05.19.2020 11:21

Analytical Method:	TPH By SW8015 Mod								Prep Method:	SW8015P	
Seq Number:	3126343								Date Prep:	05.18.2020	
MB Sample Id:	7703591-1-BLK										
Parameter	MB Result									Units	Analysis Date
Motor Oil Range Hydrocarbons (MRO)		<50.0								mg/kg	05.18.2020 21:33

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

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

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

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



QC Summary 661878

Tetra Tech- Midland
 EOG Resources Bodacious BSM Federal #1H
Analytical Method: TPH By SW8015 Mod

Seq Number: 3126484

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.19.2020

MB Sample Id: 7703661-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

**MB
Result**

<50.0

Units**Analysis
Date****Flag**

mg/kg 05.19.2020 11:02

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126343

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.18.2020

Parent Sample Id: 661878-001

MS Sample Id: 661878-001 S

MSD Sample Id: 661878-001 SD

ParameterGasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)
**Parent
Result**
**Spike
Amount**
**MS
Result**
**MS
%Rec**
**MSD
Result**
**MSD
%Rec**
Limits
%RPD
**RPD
Limit**
Units
**Analysis
Date**
Flag

mg/kg 05.18.2020 22:58

Surrogate1-Chlorooctane
o-Terphenyl
**MS
%Rec**
**MS
Flag**
**MSD
%Rec**
**MSD
Flag**
Limits
Units
**Analysis
Date**
Flag

mg/kg 05.18.2020 22:58

mg/kg 05.18.2020 22:58

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126484

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.19.2020

Parent Sample Id: 661822-002

MS Sample Id: 661822-002 S

MSD Sample Id: 661822-002 SD

ParameterGasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)
**Parent
Result**
**Spike
Amount**
**MS
Result**
**MS
%Rec**
**MSD
Result**
**MSD
%Rec**
Limits
%RPD
**RPD
Limit**
Units
**Analysis
Date**
Flag

mg/kg 05.19.2020 12:34

mg/kg 05.19.2020 12:34

Surrogate1-Chlorooctane
o-Terphenyl
**MS
%Rec**
**MS
Flag**
**MSD
%Rec**
**MSD
Flag**
Limits
Units
**Analysis
Date**
Flag

% 05.19.2020 12:34

% 05.19.2020 12:34

Analytical Method: BTEX by EPA 8021B

Seq Number: 3126457

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.19.2020

MB Sample Id: 7703699-1-BLK

LCS Sample Id: 7703699-1-BKS

LCSD Sample Id: 7703699-1-BSD

ParameterBenzene
Toluene
Ethylbenzene
m,p-Xylenes
o-Xylene
**MB
Result**
**Spike
Amount**
**LCS
Result**
**LCS
%Rec**
**LCSD
Result**
**LCSD
%Rec**
Limits
%RPD
**RPD
Limit**
Units
**Analysis
Date**
Flag

mg/kg 05.19.2020 15:51

Surrogate

1,4-Difluorobenzene

**MB
%Rec**
**MB
Flag**
**LCS
%Rec**
**LCS
Flag**
**LCSD
%Rec**
**LCSD
Flag**
Limits
Units
**Analysis
Date**
Flag

% 05.19.2020 15:51

% 05.19.2020 15:51

% 05.19.2020 15:51

% 05.19.2020 15:51

% 05.19.2020 15:51

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



QC Summary 661878

Tetra Tech- Midland
EOG Resources Bodacious BSM Federal #1H

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126446	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7703696-1-BLK	LCS Sample Id: 7703696-1-BKS						Date Prep: 05.19.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.111	111	0.112	112	70-130	1	35	mg/kg	05.19.2020 14:45
Toluene	<0.00200	0.100	0.107	107	0.108	108	70-130	1	35	mg/kg	05.19.2020 14:45
Ethylbenzene	<0.00200	0.100	0.0981	98	0.0994	99	70-130	1	35	mg/kg	05.19.2020 14:45
m,p-Xylenes	<0.00400	0.200	0.196	98	0.199	100	70-130	2	35	mg/kg	05.19.2020 14:45
o-Xylene	<0.00200	0.100	0.0951	95	0.0966	97	70-130	2	35	mg/kg	05.19.2020 14:45
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene	106		108		108		70-130			%	05.19.2020 14:45
4-Bromofluorobenzene	89		97		99		70-130			%	05.19.2020 14:45

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126457	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	661878-013	MS Sample Id: 661878-013 S						Date Prep: 05.19.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00198	0.0992	0.0993	100	0.0706	71	70-130	34	35	mg/kg	05.19.2020 16:31
Toluene	<0.00198	0.0992	0.0888	90	0.0709	72	70-130	22	35	mg/kg	05.19.2020 16:31
Ethylbenzene	<0.00198	0.0992	0.0871	88	0.0681	69	70-130	24	35	mg/kg	05.19.2020 16:31
m,p-Xylenes	<0.00397	0.198	0.161	81	0.123	62	70-130	27	35	mg/kg	05.19.2020 16:31
o-Xylene	<0.00198	0.0992	0.0805	81	0.0610	62	70-130	28	35	mg/kg	05.19.2020 16:31
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			99		111		70-130			%	05.19.2020 16:31
4-Bromofluorobenzene			128		76		70-130			%	05.19.2020 16:31

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126446	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	661878-001	MS Sample Id: 661878-001 S						Date Prep: 05.19.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00199	0.0994	0.0824	83	0.102	102	70-130	21	35	mg/kg	05.19.2020 15:26
Toluene	<0.00199	0.0994	0.0811	82	0.0992	100	70-130	20	35	mg/kg	05.19.2020 15:26
Ethylbenzene	<0.00199	0.0994	0.0752	76	0.0904	91	70-130	18	35	mg/kg	05.19.2020 15:26
m,p-Xylenes	<0.00398	0.199	0.153	77	0.181	91	70-130	17	35	mg/kg	05.19.2020 15:26
o-Xylene	<0.00199	0.0994	0.0751	76	0.0880	88	70-130	16	35	mg/kg	05.19.2020 15:26
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			107		108		70-130			%	05.19.2020 15:26
4-Bromofluorobenzene			98		102		70-130			%	05.19.2020 15:26

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

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

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

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

Analysis Request of Chain of Custody Record

Page 1 of 3

**Tetra Tech, Inc.**

901 W Wall St, Suite 100
Midland, Texas 79701
Phone: 432.682.4559
Fax: 432.682.3946

Client Name:

EOG Resources

Site Manager:

Brittany Long

Project Name:

Bodacious BSM Federal #1H

Project Location: (county,
state)
Invoice to:

Eddy County, New Mexico

James Kennedy

Project #: 212C-MD-02190

Sampler Signature: Devin Dominguez

Receiving Laboratory:

Xenco

Comments:

Bill to EOG

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			YEAR:	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD	
Bottom Hole-1 ('10')				5/15/2020			X		X		X	1	1	X	BTEX 8021B BTEX 8260B
Bottom Hole-2 ('10')				5/15/2020			X		X		X	1	1	X	TPH TX1005 (Ext to C35)
Bottom Hole-3 ('10')				5/15/2020			X		X		X	1	1	X	TPH 8015M (GRC - DRO - ORO - MRO)
Bottom Hole-4 ('10')				5/15/2020			X		X		X	1	1	X	PAH 8270C
Bottom Hole-5 ('10')				5/15/2020			X		X		X	1	1	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
Bottom Hole-6 ('10')				5/15/2020			X		X		X	1	1	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
Bottom Hole-7 ('10')				5/15/2020			X		X		X	1	1	X	TCLP Volatiles
Bottom Hole-8 ('10')				5/15/2020			X		X		X	1	1	X	TCLP Semi Volatiles
Bottom Hole-9 ('10')				5/15/2020			X		X		X	1	1	X	RCI
Bottom Hole-10 ('10')				5/15/2020			X		X		X	1	1	X	GC/MS Vol. 8260B / 624
															GC/MS Semi. Vol. 8270C/625
															PCB's 8082 / 608
															NORM
															PLM (Asbestos)
															Chloride
															Chloride Sulfate TDS
															General Water Chemistry (see attached list)
															Anion/Cation Balance
															Hold

(Circle or Specify Method No.)

ANALYSIS REQUEST

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Received by: *J. Kennedy*

Date: 5/12/2020 Time: 15:49

Received by: *M. Long*

Date: 5/12/2020 Time: 15:49

Received by: *S. Dominguez*

Date: 5/15/2020 Time: 15:49

Received by: *D. Dominguez*

Date: 5/15/2020 Time: 15:49

Released by: *J. Kennedy*

Date: 5/12/2020 Time: 15:49

Released by: *M. Long*

Date: 5/12/2020 Time: 15:49

Released by: *S. Dominguez*

Date: 5/15/2020 Time: 15:49

Released by: *D. Dominguez*

Date: 5/15/2020 Time: 15:49

ORIGINAL COPY

Received by OCD: 2/24/2022 12:25:11 PM

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Final 1.000

Page 62 of 65

Released to Imaging: 12/15/2022 9:54:23 AM

Tetra Tech, Inc.

四

901 W Wall St, Suite
Midland, Texas 79701
Phone: 432.682.4555
Fax: 432.682.3946

Fax: 402.662.3948

卷之三

XENCO Laboratories**Prelogin/Nonconformance Report- Sample Log-In****Client:** Tetra Tech- Midland**Date/ Time Received:** 05.18.2020 03.49.00 PM**Work Order #:** 661878

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes BTEX IN BULK CONTAINER
#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:

 Brianna Teel

Date: 05.18.2020

Checklist reviewed by:

 Jessica Kramer

Date: 05.19.2020



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Page 113 of 728

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-001 NSW-3 Comp 10'	662365-002 Bottomhole-14 Comp 7'	662365-003 Bottomhole-15 Comp 7'	662365-004 Bottomhole-16 Comp 7'	662365-005 Bottomhole-17 Comp 7'	662365-006 Bottomhole-18 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:15 05.22.2020 16:51 mg/kg RL	05.22.2020 15:15 05.22.2020 17:11 mg/kg RL	05.22.2020 15:15 05.22.2020 17:32 mg/kg RL	05.22.2020 15:15 05.22.2020 17:52 mg/kg RL	05.22.2020 15:15 05.22.2020 18:13 mg/kg RL	05.22.2020 15:15 05.22.2020 18:33 mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00399 0.00399	<0.00403 0.00403	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 15:00 05.22.2020 20:25 mg/kg RL	05.22.2020 15:00 05.22.2020 20:32 mg/kg RL	05.22.2020 15:00 05.22.2020 20:39 mg/kg RL	05.22.2020 15:00 05.22.2020 20:46 mg/kg RL	05.22.2020 15:00 05.22.2020 21:07 mg/kg RL	05.22.2020 15:00 05.22.2020 21:13 mg/kg RL
Chloride		47.8 5.02	79.5 5.00	76.3 4.99	86.1 5.00	81.0 4.99	84.5 5.01
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 11:36 mg/kg RL	05.22.2020 16:00 05.23.2020 12:41 mg/kg RL	05.22.2020 16:00 05.23.2020 13:03 mg/kg RL	05.22.2020 16:00 05.23.2020 13:25 mg/kg RL	05.22.2020 16:00 05.23.2020 13:47 mg/kg RL	05.22.2020 16:00 05.23.2020 14:08 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.9 49.9

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

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Page 114 of 728

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-007 Bottomhole-19 Comp 7'	662365-008 Bottomhole-20 Comp 7'	662365-009 Bottomhole-21 Comp 7'	662365-010 Bottomhole-22 Comp 7'	662365-011 Bottomhole-23 Comp 7'	662365-012 Bottomhole-24 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:15 05.22.2020 18:53 mg/kg	05.22.2020 15:15 05.22.2020 19:14 RL	05.22.2020 15:15 05.22.2020 19:34 mg/kg	05.22.2020 15:15 05.22.2020 19:54 RL	05.22.2020 15:15 05.22.2020 21:15 mg/kg	05.22.2020 15:15 05.22.2020 21:36 RL
Benzene	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Toluene	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Ethylbenzene	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
m,p-Xylenes	<0.00397 0.00397	<0.00398 0.00398	<0.00397 0.00397	<0.00396 0.00396	<0.00402 0.00402	<0.00396 0.00396	
o-Xylene	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	
Total Xylenes	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	
Total BTEX	<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198	
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 15:00 05.22.2020 21:34 mg/kg	05.22.2020 15:00 05.22.2020 21:41 RL	05.22.2020 15:00 05.22.2020 21:48 mg/kg	05.22.2020 15:00 05.22.2020 21:54 RL	05.22.2020 15:00 05.22.2020 22:01 mg/kg	05.22.2020 15:00 05.22.2020 22:08 RL
Chloride	83.5 5.02	82.1 5.02	93.0 5.03	90.2 4.99	91.7 4.99	82.8 4.98	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 14:30 mg/kg	05.22.2020 16:00 05.23.2020 14:52 RL	05.22.2020 16:00 05.23.2020 15:14 mg/kg	05.22.2020 16:00 05.23.2020 15:35 RL	05.22.2020 16:00 05.23.2020 16:19 mg/kg	05.22.2020 16:00 05.23.2020 16:41 RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Total TPH	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-013 Bottomhole-25 Comp 7'	662365-014 Bottomhole-26 Comp 7'	662365-015 Bottomhole-27 Comp 7'	662365-016 Bottomhole-28 Comp 7'	662365-017 Bottomhole-29 Comp 7'	662365-018 Bottomhole-30 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:15 05.22.2020 21:56 mg/kg	05.22.2020 15:15 05.22.2020 22:17 RL	05.22.2020 15:15 05.22.2020 22:37 mg/kg	05.22.2020 15:15 05.22.2020 22:58 RL	05.22.2020 15:15 05.22.2020 23:18 mg/kg	05.22.2020 15:15 05.22.2020 23:39 RL
Benzene	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Toluene	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes	<0.00400 0.00400	<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402	<0.00400 0.00400	<0.00399 0.00399
o-Xylene	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total BTEX	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 15:00 05.22.2020 22:15 mg/kg	05.22.2020 15:30 05.23.2020 00:50 RL	05.22.2020 15:30 05.23.2020 01:19 mg/kg	05.22.2020 15:30 05.23.2020 01:28 RL	05.22.2020 15:30 05.23.2020 01:38 mg/kg	05.22.2020 15:30 05.23.2020 01:47 RL
Chloride	86.5 4.97	108 5.02	118 5.00	104 4.98	59.3 4.97	57.4 5.01	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 17:03 mg/kg	05.22.2020 16:00 05.23.2020 17:24 RL	05.22.2020 16:00 05.23.2020 17:46 mg/kg	05.22.2020 16:00 05.23.2020 18:08 RL	05.22.2020 16:00 05.23.2020 18:30 mg/kg	05.22.2020 16:00 05.23.2020 18:51 RL
Gasoline Range Hydrocarbons (GRO)	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Diesel Range Organics (DRO)	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	
Total TPH	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	

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

John Builes
Project Manager

**Certificate of Analysis Summary 662365**

Page 116 of 728

Tetra Tech- Midland, Midland, TX**Project Name: EOG - Bodacious BSM Federal #1H****Project Id:** 212C-MD-02190**Date Received in Lab:** Fri 05.22.2020 09:45**Contact:** Mike Carmona**Report Date:** 05.28.2020 12:11**Project Location:** Eddy County NM**Project Manager:** Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-019 Bottomhole-31 Comp 7'	662365-020 Bottomhole-32 Comp 7'	662365-021 Bottomhole-33 Comp 7'	662365-022 Bottomhole-34 Comp 7'	662365-023 Bottomhole-35 Comp 7'	662365-024 Bottomhole-36 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:15 05.22.2020 23:59 mg/kg RL	05.22.2020 15:15 05.23.2020 00:20 mg/kg RL	05.22.2020 15:30 05.23.2020 03:22 mg/kg RL	05.22.2020 15:30 05.23.2020 03:43 mg/kg RL	05.22.2020 15:30 05.23.2020 04:03 mg/kg RL	05.22.2020 15:30 05.23.2020 04:24 mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00402 0.00402	<0.00400 0.00400	<0.00400 0.00400	<0.00402 0.00402
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 15:30 05.23.2020 02:16 mg/kg RL	05.22.2020 15:30 05.23.2020 02:25 mg/kg RL	05.22.2020 15:30 05.23.2020 02:35 mg/kg RL	05.22.2020 15:30 05.23.2020 02:44 mg/kg RL	05.22.2020 15:30 05.23.2020 02:54 mg/kg RL	05.22.2020 15:30 05.23.2020 03:03 mg/kg RL
Chloride		57.5 5.00	59.5 5.02	58.1 5.03	57.6 5.01	60.2 4.96	61.5 4.95
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 19:13 mg/kg RL	05.22.2020 16:00 05.23.2020 19:34 mg/kg RL	05.22.2020 16:32 05.23.2020 11:36 mg/kg RL	05.22.2020 16:32 05.23.2020 12:41 mg/kg RL	05.22.2020 16:32 05.23.2020 13:03 mg/kg RL	05.22.2020 16:32 05.23.2020 13:25 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-025 Bottomhole-37 Comp 7'	662365-026 Bottomhole-38 Comp 7'	662365-027 Bottomhole-39 Comp 7'	662365-028 Bottomhole-40 Comp 7'	662365-029 Bottomhole-41 Comp 7'	662365-030 Bottomhole-42 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:30 05.23.2020 04:44 mg/kg	05.22.2020 15:30 05.23.2020 05:05 RL	05.22.2020 15:30 05.23.2020 05:25 mg/kg	05.22.2020 15:30 05.23.2020 05:46 RL	05.22.2020 15:30 05.23.2020 06:06 mg/kg	05.22.2020 15:30 05.23.2020 06:27 RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00404 0.00404	<0.00399 0.00399	<0.00401 0.00401	<0.00396 0.00396	<0.00399 0.00399	<0.00402 0.00402
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 15:30 05.23.2020 03:31 mg/kg	05.22.2020 15:30 05.23.2020 03:41 RL	05.22.2020 15:30 05.23.2020 04:09 mg/kg	05.22.2020 15:30 05.23.2020 04:19 RL	05.22.2020 15:30 05.23.2020 04:28 mg/kg	05.22.2020 15:30 05.23.2020 04:38 RL
Chloride		58.9 4.99	62.7 4.99	58.5 4.99	58.7 4.96	79.1 5.03	73.6 5.04
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:32 05.23.2020 13:47 mg/kg	05.22.2020 16:32 05.23.2020 14:08 RL	05.22.2020 16:32 05.23.2020 14:30 mg/kg	05.22.2020 16:32 05.23.2020 14:52 RL	05.22.2020 16:32 05.24.2020 09:34 mg/kg	05.22.2020 16:32 05.23.2020 15:35 RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9

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

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-031 Bottomhole-43 Comp 7'	662365-032 Bottomhole-44 Comp 7'	662365-033 Bottomhole-45 Comp 7'	662365-034 Bottomhole-46 Comp 7'	662365-035 Bottomhole-47 Comp 7'	662365-036 Bottomhole-48 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:30 05.23.2020 07:49 mg/kg RL	05.22.2020 15:30 05.23.2020 08:09 mg/kg RL	05.22.2020 15:30 05.23.2020 08:30 mg/kg RL	05.22.2020 15:30 05.23.2020 08:50 mg/kg RL	05.22.2020 15:30 05.23.2020 09:11 mg/kg RL	05.22.2020 15:30 05.23.2020 09:31 mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399	<0.00399 0.00399	<0.00397 0.00397	<0.00401 0.00401
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 15:30 05.23.2020 04:47 mg/kg RL	05.22.2020 15:30 05.23.2020 04:57 mg/kg RL	05.22.2020 15:30 05.23.2020 05:06 mg/kg RL	05.22.2020 16:00 05.23.2020 06:03 mg/kg RL	05.22.2020 16:00 05.23.2020 06:31 mg/kg RL	05.22.2020 16:00 05.23.2020 06:41 mg/kg RL
Chloride		73.2 5.01	66.4 4.98	11.8 4.99	26.8 4.99	10.3 5.04	10.5 5.01
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:32 05.23.2020 16:19 mg/kg RL	05.22.2020 16:32 05.23.2020 16:41 mg/kg RL	05.22.2020 16:32 05.23.2020 17:03 mg/kg RL	05.22.2020 16:32 05.23.2020 17:24 mg/kg RL	05.22.2020 16:32 05.23.2020 17:46 mg/kg RL	05.22.2020 16:32 05.23.2020 18:08 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.22.2020 09:45

Contact: Mike Carmona

Report Date: 05.28.2020 12:11

Project Location: Eddy County NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-037 Bottomhole-49 Comp 7'	662365-038 Bottomhole-50 Comp 7'	662365-039 Bottomhole-51 Comp 7'	662365-040 Bottomhole-52 Comp 7'	662365-041 Bottomhole-53 Comp 7'	662365-042 Bottomhole-54 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:30 05.23.2020 09:52 mg/kg RL	05.22.2020 15:30 05.23.2020 10:12 mg/kg RL	05.22.2020 15:30 05.23.2020 10:33 mg/kg RL	05.22.2020 15:30 05.23.2020 10:53 mg/kg RL	05.22.2020 15:35 05.23.2020 13:58 mg/kg RL	05.22.2020 15:35 05.23.2020 14:18 mg/kg RL
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398	<0.00402 0.00402	<0.00403 0.00403	<0.00403 0.00403	<0.00401 0.00401
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 06:50 mg/kg RL	05.22.2020 16:00 05.23.2020 07:00 mg/kg RL	05.22.2020 16:00 05.23.2020 07:28 mg/kg RL	05.22.2020 16:00 05.23.2020 07:38 mg/kg RL	05.22.2020 16:00 05.23.2020 07:47 mg/kg RL	05.22.2020 16:00 05.23.2020 07:57 mg/kg RL
Chloride		10.6 5.03	11.3 5.03	15.2 5.00	27.8 5.04	16.7 5.05	81.4 5.02
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:32 05.23.2020 18:30 mg/kg RL	05.22.2020 16:32 05.23.2020 18:51 mg/kg RL	05.22.2020 16:32 05.23.2020 19:13 mg/kg RL	05.22.2020 16:32 05.23.2020 19:34 mg/kg RL	05.22.2020 16:00 05.22.2020 18:56 mg/kg RL	05.22.2020 16:00 05.22.2020 19:51 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9

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

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-043 Bottomhole-55 Comp 7'	662365-044 Bottomhole-56 Comp 7'	662365-045 Bottomhole-57 Comp 7'	662365-046 WSW-4 Comp 7'	662365-047 WSW-5 Comp 7'	662365-048 WSW-6 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:35 05.23.2020 14:39 mg/kg RL	05.22.2020 15:35 05.23.2020 14:59 mg/kg RL	05.22.2020 15:35 05.23.2020 15:20 mg/kg RL	05.22.2020 15:35 05.23.2020 15:40 mg/kg RL	05.22.2020 15:35 05.23.2020 16:01 mg/kg RL	05.22.2020 15:35 05.23.2020 16:22 mg/kg RL
Benzene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	<0.00396 0.00396	<0.00398 0.00398	<0.00398 0.00398	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 08:06 mg/kg RL	05.22.2020 16:00 05.23.2020 08:16 mg/kg RL	05.22.2020 16:00 05.23.2020 08:44 mg/kg RL	05.22.2020 16:00 05.23.2020 08:53 mg/kg RL	05.22.2020 16:00 05.23.2020 09:22 mg/kg RL	05.22.2020 16:00 05.23.2020 09:31 mg/kg RL
Chloride		78.6 4.96	74.1 4.97	77.2 4.99	96.2 4.96	97.7 4.97	102 5.04
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.22.2020 20:09 mg/kg RL	05.22.2020 16:00 05.22.2020 20:28 mg/kg RL	05.22.2020 16:00 05.22.2020 20:47 mg/kg RL	05.22.2020 16:00 05.22.2020 21:06 mg/kg RL	05.22.2020 16:00 05.22.2020 21:24 mg/kg RL	05.22.2020 16:00 05.22.2020 21:43 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Page 121 of 728

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-049 WSW-7 Comp 7'	662365-050 WSW-8 Comp 7'	662365-051 NSW-4 Comp 7'	662365-052 NSW-5 Comp 7'	662365-053 NSW-6 Comp 7'	662365-054 NSW-7 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:35 05.23.2020 16:42 mg/kg RL	05.22.2020 15:35 05.23.2020 17:03 mg/kg RL	05.22.2020 15:35 05.23.2020 18:27 mg/kg RL	05.22.2020 15:35 05.23.2020 18:47 mg/kg RL	05.22.2020 15:35 05.23.2020 19:08 mg/kg RL	05.22.2020 15:35 05.23.2020 19:28 mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00402 0.00402	<0.00397 0.00397	<0.00397 0.00397	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 09:41 mg/kg RL	05.22.2020 16:00 05.23.2020 09:50 mg/kg RL	05.22.2020 16:00 05.23.2020 10:00 mg/kg RL	05.22.2020 16:00 05.23.2020 10:09 mg/kg RL	05.22.2020 16:00 05.23.2020 10:19 mg/kg RL	05.22.2020 16:30 05.23.2020 11:04 mg/kg RL
Chloride		8.51 5.01	8.42 5.02	102 4.99	84.6 4.97	133 4.96	99.4 5.01
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.22.2020 22:02 mg/kg RL	05.22.2020 16:00 05.22.2020 22:20 mg/kg RL	05.22.2020 16:00 05.22.2020 22:58 mg/kg RL	05.22.2020 16:00 05.22.2020 23:16 mg/kg RL	05.22.2020 16:00 05.22.2020 23:35 mg/kg RL	05.22.2020 16:00 05.22.2020 23:53 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Page 122 of 728

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.22.2020 09:45

Contact: Mike Carmona

Report Date: 05.28.2020 12:11

Project Location: Eddy County NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-055 SSW-4 Comp 7'	662365-056 SSW-5 Comp 7'	662365-057 ESW-4 Comp 7'	662365-058 ESW-5 Comp 7'	662365-059 ESW-6 Comp 7'	662365-060 ESW-7 Comp 7'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 15:35 05.23.2020 19:49 mg/kg RL	05.22.2020 15:35 05.23.2020 20:09 mg/kg RL	05.22.2020 15:35 05.23.2020 20:30 mg/kg RL	05.22.2020 15:35 05.23.2020 20:50 mg/kg RL	05.22.2020 15:35 05.23.2020 21:11 mg/kg RL	05.22.2020 15:35 05.23.2020 21:31 mg/kg RL
Benzene	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes	<0.00397 0.00397	<0.00399 0.00399	<0.00396 0.00396	<0.00402 0.00402	<0.00399 0.00399	<0.00399 0.00399	<0.00399 0.00399
o-Xylene	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 16:30 05.23.2020 11:22 mg/kg RL	05.22.2020 16:30 05.23.2020 11:27 mg/kg RL	05.22.2020 16:30 05.23.2020 11:33 mg/kg RL	05.22.2020 16:30 05.23.2020 11:39 mg/kg RL	05.22.2020 16:30 05.23.2020 11:56 mg/kg RL	05.22.2020 16:30 05.23.2020 12:02 mg/kg RL
Chloride	8.87 5.00	8.62 5.00	8.93 4.96	8.68 4.97	8.75 4.95	8.58 4.98	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 00:12 mg/kg RL	05.22.2020 16:00 05.23.2020 00:31 mg/kg RL	05.22.2020 16:00 05.23.2020 00:50 mg/kg RL	05.22.2020 16:00 05.23.2020 01:09 mg/kg RL	05.22.2020 16:00 05.23.2020 01:28 mg/kg RL	05.22.2020 16:00 05.23.2020 01:46 mg/kg RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Total TPH	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662365-061 ESW-8 Comp 7'	662365-062 Bottomhole-58 Comp 4'	662365-063 Bottomhole-59 Comp 4'	662365-064 Bottomhole-60 Comp 4'	662365-065 Bottomhole-61 Comp 4'	662365-066 Bottomhole-62 Comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.22.2020 17:00 05.23.2020 17:15 mg/kg	05.22.2020 17:00 05.23.2020 17:36 RL	05.22.2020 17:00 05.23.2020 17:56 mg/kg	05.22.2020 17:00 05.23.2020 18:16 RL	05.22.2020 17:00 05.23.2020 18:36 mg/kg	05.22.2020 17:00 05.23.2020 18:56 RL
Benzene	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	0.00215 0.00199	
Toluene	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	
Ethylbenzene	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	0.00467 0.00199	
m,p-Xylenes	<0.00399 0.00399	<0.00398 0.00398	<0.00402 0.00402	<0.00403 0.00403	<0.00396 0.00396	<0.00398 0.00398	
o-Xylene	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	
Total Xylenes	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	<0.00199 0.00199	
Total BTEX	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00198 0.00198	0.00682 0.00199	
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.22.2020 16:30 05.23.2020 12:07 mg/kg	05.22.2020 16:30 05.23.2020 12:13 RL	05.22.2020 16:30 05.23.2020 12:19 mg/kg	05.22.2020 16:30 05.23.2020 12:24 RL	05.22.2020 16:30 05.23.2020 12:42 mg/kg	05.22.2020 16:30 05.23.2020 12:47 RL
Chloride	9.66 5.03	104 5.02	108 5.02	114 X 5.00	111 4.99	101 4.99	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 03:21 mg/kg	05.22.2020 16:00 05.23.2020 04:17 RL	05.22.2020 16:00 05.23.2020 04:36 mg/kg	05.22.2020 16:00 05.23.2020 04:55 RL	05.22.2020 16:00 05.23.2020 05:13 mg/kg	05.22.2020 16:00 05.23.2020 05:32 RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	
Total TPH	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	

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

John Builes
Project Manager



Certificate of Analysis Summary 662365

Page 124 of 728

Tetra Tech- Midland, Midland, TX

Project Name: EOG - Bodacious BSM Federal #1H

Project Id: 212C-MD-02190
Contact: Mike Carmona
Project Location: Eddy County NM

Date Received in Lab: Fri 05.22.2020 09:45
Report Date: 05.28.2020 12:11
Project Manager: Jessica Kramer

Analysis Requested		Lab Id: <i>Field Id:</i> <i>Depth:</i> Matrix: Sampled:	662365-067 Bottomhole-63 Comp 4'	662365-068 Bottomhole-64 Comp 4'	662365-069 Bottomhole-65 Comp 4'	662365-070 Bottomhole-66 Comp 4'	662365-071 Bottomhole-67 Comp 4'	
BTEX by EPA 8021B		Extracted: Analyzed: Units/RL:	05.22.2020 17:00 05.23.2020 19:16 mg/kg	05.22.2020 17:00 05.23.2020 19:37 RL	05.22.2020 17:00 05.23.2020 19:57 mg/kg	05.22.2020 17:00 05.23.2020 20:17 RL	05.22.2020 17:00 05.23.2020 21:36 mg/kg	
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200		
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200		
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200		
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399		
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200		
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200		
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200		
Inorganic Anions by EPA 300/300.1		Extracted: Analyzed: Units/RL:	05.22.2020 16:30 05.23.2020 13:04 mg/kg	05.22.2020 16:30 05.23.2020 13:10 RL	05.22.2020 16:30 05.23.2020 13:16 mg/kg	05.22.2020 16:30 05.23.2020 13:22 RL	05.22.2020 16:30 05.23.2020 13:27 mg/kg	
Chloride		110 4.95	112 5.02	120 5.04	122 4.98	115 5.03		
TPH By SW8015 Mod		Extracted: Analyzed: Units/RL:	05.22.2020 16:00 05.23.2020 05:51 mg/kg	05.22.2020 16:00 05.23.2020 06:10 RL	05.22.2020 16:00 05.23.2020 06:28 mg/kg	05.22.2020 16:00 05.23.2020 06:47 RL	05.22.2020 16:00 05.23.2020 07:06 mg/kg	
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0		
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0		
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0		

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

John Builes
Project Manager



Analytical Report 662365

for

Tetra Tech- Midland

Project Manager: Mike Carmona

EOG - Bodacious BSM Federal #1H

212C-MD-02190

05.28.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.28.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **662365**

EOG - Bodacious BSM Federal #1H

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) 662365. 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. 662365 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, appearing to read 'JB'.

John Builes

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NSW-3 Comp 10'	S	05.19.2020 00:00		662365-001
Bottomhole-14 Comp 7'	S	05.19.2020 00:00		662365-002
Bottomhole-15 Comp 7'	S	05.19.2020 00:00		662365-003
Bottomhole-16 Comp 7'	S	05.19.2020 00:00		662365-004
Bottomhole-17 Comp 7'	S	05.19.2020 00:00		662365-005
Bottomhole-18 Comp 7'	S	05.19.2020 00:00		662365-006
Bottomhole-19 Comp 7'	S	05.19.2020 00:00		662365-007
Bottomhole-20 Comp 7'	S	05.19.2020 00:00		662365-008
Bottomhole-21 Comp 7'	S	05.19.2020 00:00		662365-009
Bottomhole-22 Comp 7'	S	05.19.2020 00:00		662365-010
Bottomhole-23 Comp 7'	S	05.19.2020 00:00		662365-011
Bottomhole-24 Comp 7'	S	05.19.2020 00:00		662365-012
Bottomhole-25 Comp 7'	S	05.19.2020 00:00		662365-013
Bottomhole-26 Comp 7'	S	05.19.2020 00:00		662365-014
Bottomhole-27 Comp 7'	S	05.19.2020 00:00		662365-015
Bottomhole-28 Comp 7'	S	05.19.2020 00:00		662365-016
Bottomhole-29 Comp 7'	S	05.19.2020 00:00		662365-017
Bottomhole-30 Comp 7'	S	05.19.2020 00:00		662365-018
Bottomhole-31 Comp 7'	S	05.19.2020 00:00		662365-019
Bottomhole-32 Comp 7'	S	05.19.2020 00:00		662365-020
Bottomhole-33 Comp 7'	S	05.19.2020 00:00		662365-021
Bottomhole-34 Comp 7'	S	05.19.2020 00:00		662365-022
Bottomhole-35 Comp 7'	S	05.19.2020 00:00		662365-023
Bottomhole-36 Comp 7'	S	05.19.2020 00:00		662365-024
Bottomhole-37 Comp 7'	S	05.19.2020 00:00		662365-025
Bottomhole-38 Comp 7'	S	05.19.2020 00:00		662365-026
Bottomhole-39 Comp 7'	S	05.19.2020 00:00		662365-027
Bottomhole-40 Comp 7'	S	05.19.2020 00:00		662365-028
Bottomhole-41 Comp 7'	S	05.19.2020 00:00		662365-029
Bottomhole-42 Comp 7'	S	05.19.2020 00:00		662365-030
Bottomhole-43 Comp 7'	S	05.19.2020 00:00		662365-031
Bottomhole-44 Comp 7'	S	05.19.2020 00:00		662365-032
Bottomhole-45 Comp 7'	S	05.19.2020 00:00		662365-033
Bottomhole-46 Comp 7'	S	05.19.2020 00:00		662365-034
Bottomhole-47 Comp 7'	S	05.19.2020 00:00		662365-035
Bottomhole-48 Comp 7'	S	05.19.2020 00:00		662365-036
Bottomhole-49 Comp 7'	S	05.19.2020 00:00		662365-037
Bottomhole-50 Comp 7'	S	05.19.2020 00:00		662365-038
Bottomhole-51 Comp 7'	S	05.19.2020 00:00		662365-039
Bottomhole-52 Comp 7'	S	05.19.2020 00:00		662365-040
Bottomhole-53 Comp 7'	S	05.19.2020 00:00		662365-041
Bottomhole-54 Comp 7'	S	05.19.2020 00:00		662365-042
Bottomhole-55 Comp 7'	S	05.19.2020 00:00		662365-043



Sample Cross Reference 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

BOTTOMHOLE-56 COMP 7'	S	05.19.2020 00:00	662365-044
BOTTOMHOLE-57 COMP 7'	S	05.19.2020 00:00	662365-045
WSW-4 COMP 7'	S	05.19.2020 00:00	662365-046
WSW-5 COMP 7'	S	05.19.2020 00:00	662365-047
WSW-6 COMP 7'	S	05.19.2020 00:00	662365-048
WSW-7 COMP 7'	S	05.19.2020 00:00	662365-049
WSW-8 COMP 7'	S	05.19.2020 00:00	662365-050
NSW-4 COMP 7'	S	05.19.2020 00:00	662365-051
NSW-5 COMP 7'	S	05.19.2020 00:00	662365-052
NSW-6 COMP 7'	S	05.19.2020 00:00	662365-053
NSW-7 COMP 7'	S	05.19.2020 00:00	662365-054
SSW-4 COMP 7'	S	05.19.2020 00:00	662365-055
SSW-5 COMP 7'	S	05.19.2020 00:00	662365-056
ESW-4 COMP 7'	S	05.19.2020 00:00	662365-057
ESW-5 COMP 7'	S	05.19.2020 00:00	662365-058
ESW-6 COMP 7'	S	05.19.2020 00:00	662365-059
ESW-7 COMP 7'	S	05.19.2020 00:00	662365-060
ESW-8 COMP 7'	S	05.19.2020 00:00	662365-061
BOTTOMHOLE-58 COMP 4'	S	05.20.2020 00:00	662365-062
BOTTOMHOLE-59 COMP 4'	S	05.20.2020 00:00	662365-063
BOTTOMHOLE-60 COMP 4'	S	05.20.2020 00:00	662365-064
BOTTOMHOLE-61 COMP 4'	S	05.20.2020 00:00	662365-065
BOTTOMHOLE-62 COMP 4'	S	05.20.2020 00:00	662365-066
BOTTOMHOLE-63 COMP 4'	S	05.20.2020 00:00	662365-067
BOTTOMHOLE-64 COMP 4'	S	05.20.2020 00:00	662365-068
BOTTOMHOLE-65 COMP 4'	S	05.20.2020 00:00	662365-069
BOTTOMHOLE-66 COMP 4'	S	05.20.2020 00:00	662365-070
BOTTOMHOLE-67 COMP 4'	S	05.20.2020 00:00	662365-071



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG - Bodacious BSM Federal #1H

Project ID: 212C-MD-02190
Work Order Number(s): 662365

Report Date: 05.28.2020
Date Received: 05.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3126843 Inorganic Anions by EPA 300/300.1

Lab Sample ID 662365-064 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 662365-054, -055, -056, -057, -058, -059, -060, -061, -062, -063, -064, -065, -066, -067, -068, -069, -070, -071.

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

Batch: LBA-3126898 BTEX by EPA 8021B

Lab Sample ID 662365-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Toluene recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 662365-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.

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

Batch: LBA-3126901 BTEX by EPA 8021B

Lab Sample ID 662365-041 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 662365-041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051, -052, -053, -054, -055, -056, -057, -058, -059, -060.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3126931 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7704038-1-BKS, 7704038-1-BSD, 662365-061 S, 662365-061 SD, 662365-070, 662365-068, 662365-067, 662365-071, 662365-063.



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-3 Comp 10' Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-001 Date Collected: 05.15.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.8	5.02	mg/kg	05.22.2020 20:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	05.23.2020 11:36	
o-Terphenyl	84-15-1	93	%	70-130	05.23.2020 11:36	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-3 Comp 10'

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-001

Date Collected: 05.15.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.22.2020 16:51	UX	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.22.2020 16:51	UX	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.22.2020 16:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.22.2020 16:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.22.2020 16:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.22.2020 16:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.22.2020 16:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.22.2020 16:51		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.22.2020 16:51		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-14 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-002 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.5	5.00	mg/kg	05.22.2020 20:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.23.2020 12:41	
o-Terphenyl	84-15-1	85	%	70-130	05.23.2020 12:41	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-14 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-002

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.22.2020 17:11	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.22.2020 17:11	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.22.2020 17:11	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.22.2020 17:11	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.22.2020 17:11	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.22.2020 17:11	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.22.2020 17:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.22.2020 17:11		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.22.2020 17:11		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-15 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-003 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.3	4.99	mg/kg	05.22.2020 20:39		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 13:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 13:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 13:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 13:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.23.2020 13:03	
o-Terphenyl	84-15-1	85	%	70-130	05.23.2020 13:03	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-15 Comp 7'**

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-003

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.22.2020 17:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.22.2020 17:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.22.2020 17:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.22.2020 17:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.22.2020 17:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.22.2020 17:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.22.2020 17:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.22.2020 17:32		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.22.2020 17:32		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-16 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-004 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	86.1	5.00	mg/kg	05.22.2020 20:46		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 13:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 13:25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 13:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.23.2020 13:25	
o-Terphenyl	84-15-1	88	%	70-130	05.23.2020 13:25	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-16 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-004

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.22.2020 17:52	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.22.2020 17:52	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.22.2020 17:52	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.22.2020 17:52	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.22.2020 17:52	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.22.2020 17:52	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.22.2020 17:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.22.2020 17:52		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.22.2020 17:52		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-17 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-005 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	81.0	4.99	mg/kg	05.22.2020 21:07		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 13:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 13:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 13:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 13:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	05.23.2020 13:47	
o-Terphenyl	84-15-1	78	%	70-130	05.23.2020 13:47	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-17 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-005

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.22.2020 18:13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.22.2020 18:13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.22.2020 18:13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.22.2020 18:13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.22.2020 18:13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.22.2020 18:13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.22.2020 18:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.22.2020 18:13		
1,4-Difluorobenzene	540-36-3	99	%	70-130	05.22.2020 18:13		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-18 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-006 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.5	5.01	mg/kg	05.22.2020 21:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	05.23.2020 14:08	
o-Terphenyl	84-15-1	83	%	70-130	05.23.2020 14:08	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-18 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-006

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.22.2020 18:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.22.2020 18:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.22.2020 18:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.22.2020 18:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.22.2020 18:33	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.22.2020 18:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.22.2020 18:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.22.2020 18:33		
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.22.2020 18:33		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: Bottomhole-19 Comp 7'	Matrix: Soil	Date Received: 05.22.2020 09:45
Lab Sample Id: 662365-007	Date Collected: 05.19.2020 00:00	
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: SPC	% Moisture:	
Analyst: SPC	Date Prep: 05.22.2020 15:00	Basis: Wet Weight
Seq Number: 3126840		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.5	5.02	mg/kg	05.22.2020 21:34		1

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P
Tech: DVM	% Moisture:
Analyst: ARM	Date Prep: 05.22.2020 16:00
Seq Number: 3126891	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	05.23.2020 14:30	
o-Terphenyl	84-15-1	81	%	70-130	05.23.2020 14:30	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-19 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-007

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.22.2020 18:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.22.2020 18:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.22.2020 18:53	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.22.2020 18:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.22.2020 18:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.22.2020 18:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.22.2020 18:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	05.22.2020 18:53		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.22.2020 18:53		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-20 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-008 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.1	5.02	mg/kg	05.22.2020 21:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 14:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 14:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 14:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 14:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	05.23.2020 14:52	
o-Terphenyl	84-15-1	80	%	70-130	05.23.2020 14:52	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-20 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-008

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.22.2020 19:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.22.2020 19:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.22.2020 19:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.22.2020 19:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.22.2020 19:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.22.2020 19:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.22.2020 19:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.22.2020 19:14		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.22.2020 19:14		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-21 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-009 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.0	5.03	mg/kg	05.22.2020 21:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 15:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	05.23.2020 15:14	
o-Terphenyl	84-15-1	84	%	70-130	05.23.2020 15:14	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-21 Comp 7'**

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-009

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.22.2020 19:34	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.22.2020 19:34	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.22.2020 19:34	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.22.2020 19:34	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.22.2020 19:34	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.22.2020 19:34	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.22.2020 19:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.22.2020 19:34		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.22.2020 19:34		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-22 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-010 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	90.2	4.99	mg/kg	05.22.2020 21:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 15:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 15:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 15:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 15:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	05.23.2020 15:35	
o-Terphenyl	84-15-1	84	%	70-130	05.23.2020 15:35	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-22 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-010

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.22.2020 19:54	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.22.2020 19:54	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.22.2020 19:54	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.22.2020 19:54	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.22.2020 19:54	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.22.2020 19:54	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.22.2020 19:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.22.2020 19:54		
4-Bromofluorobenzene	460-00-4	108	%	70-130	05.22.2020 19:54		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-23 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-011 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	91.7	4.99	mg/kg	05.22.2020 22:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 16:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 16:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 16:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 16:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	05.23.2020 16:19	
o-Terphenyl	84-15-1	80	%	70-130	05.23.2020 16:19	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-23 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-011

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.22.2020 21:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.22.2020 21:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.22.2020 21:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.22.2020 21:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.22.2020 21:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.22.2020 21:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.22.2020 21:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	05.22.2020 21:15		
4-Bromofluorobenzene	460-00-4	112	%	70-130	05.22.2020 21:15		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-24 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-012 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.8	4.98	mg/kg	05.22.2020 22:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	05.23.2020 16:41	
o-Terphenyl	84-15-1	85	%	70-130	05.23.2020 16:41	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-24 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-012

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.22.2020 21:36	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.22.2020 21:36	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.22.2020 21:36	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.22.2020 21:36	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.22.2020 21:36	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.22.2020 21:36	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.22.2020 21:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	129	%	70-130	05.22.2020 21:36		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.22.2020 21:36		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-25 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-013 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:00 Basis: Wet Weight
 Seq Number: 3126840

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	86.5	4.97	mg/kg	05.22.2020 22:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	05.23.2020 17:03	
o-Terphenyl	84-15-1	83	%	70-130	05.23.2020 17:03	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-25 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-013

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:15

Basis: **Wet Weight**

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.22.2020 21:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.22.2020 21:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.22.2020 21:56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.22.2020 21:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.22.2020 21:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.22.2020 21:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.22.2020 21:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	05.22.2020 21:56		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.22.2020 21:56		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-26 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-014 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	5.02	mg/kg	05.23.2020 00:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 17:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 17:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 17:24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 17:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	05.23.2020 17:24	
o-Terphenyl	84-15-1	85	%	70-130	05.23.2020 17:24	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-26 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-014

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.22.2020 22:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.22.2020 22:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.22.2020 22:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.22.2020 22:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.22.2020 22:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.22.2020 22:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.22.2020 22:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.22.2020 22:17		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.22.2020 22:17		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-27 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-015

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	118	5.00	mg/kg	05.23.2020 01:19		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 17:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 17:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 17:46	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 17:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.23.2020 17:46	
o-Terphenyl	84-15-1	87	%	70-130	05.23.2020 17:46	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-27 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-015

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.22.2020 22:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.22.2020 22:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.22.2020 22:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.22.2020 22:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.22.2020 22:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.22.2020 22:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.22.2020 22:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.22.2020 22:37		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.22.2020 22:37		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-28 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-016

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	4.98	mg/kg	05.23.2020 01:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	05.23.2020 18:08	
o-Terphenyl	84-15-1	85	%	70-130	05.23.2020 18:08	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-28 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-016

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:15

Basis: **Wet Weight**

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.22.2020 22:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.22.2020 22:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.22.2020 22:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.22.2020 22:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.22.2020 22:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.22.2020 22:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.22.2020 22:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.22.2020 22:58		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.22.2020 22:58		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-29 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-017 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.3	4.97	mg/kg	05.23.2020 01:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	05.23.2020 18:30	
o-Terphenyl	84-15-1	89	%	70-130	05.23.2020 18:30	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-29 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-017

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.22.2020 23:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.22.2020 23:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.22.2020 23:18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.22.2020 23:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.22.2020 23:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.22.2020 23:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.22.2020 23:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.22.2020 23:18		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.22.2020 23:18		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-30 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-018 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.4	5.01	mg/kg	05.23.2020 01:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 18:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 18:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 18:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 18:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	05.23.2020 18:51	
o-Terphenyl	84-15-1	89	%	70-130	05.23.2020 18:51	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-30 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-018

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.22.2020 23:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.22.2020 23:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.22.2020 23:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.22.2020 23:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.22.2020 23:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.22.2020 23:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.22.2020 23:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.22.2020 23:39		
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.22.2020 23:39		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-31 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-019 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.5	5.00	mg/kg	05.23.2020 02:16		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 19:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 19:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.23.2020 19:13	
o-Terphenyl	84-15-1	92	%	70-130	05.23.2020 19:13	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-31 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-019

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.22.2020 23:59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.22.2020 23:59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.22.2020 23:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.22.2020 23:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.22.2020 23:59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.22.2020 23:59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.22.2020 23:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	05.22.2020 23:59		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.22.2020 23:59		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-32 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-020 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.5	5.02	mg/kg	05.23.2020 02:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126891

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 19:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 19:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 19:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 19:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.23.2020 19:34	
o-Terphenyl	84-15-1	94	%	70-130	05.23.2020 19:34	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-32 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-020

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:15

Basis: Wet Weight

Seq Number: 3126898

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 00:20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 00:20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 00:20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 00:20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 00:20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 00:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 00:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.23.2020 00:20		
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.23.2020 00:20		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-33 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-021 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.1	5.03	mg/kg	05.23.2020 02:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 11:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	05.23.2020 11:36	
o-Terphenyl	84-15-1	109	%	70-130	05.23.2020 11:36	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-33 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-021

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 03:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 03:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 03:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 03:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 03:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 03:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 03:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.23.2020 03:22		
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.23.2020 03:22		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-34 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-022 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.6	5.01	mg/kg	05.23.2020 02:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 12:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	05.23.2020 12:41	
o-Terphenyl	84-15-1	103	%	70-130	05.23.2020 12:41	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-34 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-022

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 03:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 03:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 03:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.23.2020 03:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 03:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 03:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 03:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.23.2020 03:43		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.23.2020 03:43		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-35 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-023 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.2	4.96	mg/kg	05.23.2020 02:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 13:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 13:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 13:03	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 13:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	05.23.2020 13:03	
o-Terphenyl	84-15-1	104	%	70-130	05.23.2020 13:03	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-35 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-023

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 04:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 04:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 04:03	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.23.2020 04:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 04:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 04:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 04:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	05.23.2020 04:03		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.23.2020 04:03		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-36 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-024 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.5	4.95	mg/kg	05.23.2020 03:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 13:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 13:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 13:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	05.23.2020 13:25	
o-Terphenyl	84-15-1	106	%	70-130	05.23.2020 13:25	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-36 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-024

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 04:24	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 04:24	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 04:24	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 04:24	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 04:24	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 04:24	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 04:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.23.2020 04:24		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.23.2020 04:24		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-37 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-025 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.9	4.99	mg/kg	05.23.2020 03:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 13:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 13:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 13:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 13:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	05.23.2020 13:47	
o-Terphenyl	84-15-1	104	%	70-130	05.23.2020 13:47	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-37 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-025

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 04:44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 04:44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 04:44	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.23.2020 04:44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 04:44	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 04:44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 04:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	05.23.2020 04:44		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.23.2020 04:44		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-38 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-026

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.7	4.99	mg/kg	05.23.2020 03:41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:32

Basis: **Wet Weight**

Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 14:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	05.23.2020 14:08	
o-Terphenyl	84-15-1	101	%	70-130	05.23.2020 14:08	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-38 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-026

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 05:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 05:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 05:05	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 05:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 05:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 05:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 05:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.23.2020 05:05		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.23.2020 05:05		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-39 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-027 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.5	4.99	mg/kg	05.23.2020 04:09		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 14:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	05.23.2020 14:30	
o-Terphenyl	84-15-1	102	%	70-130	05.23.2020 14:30	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-39 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-027

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 05:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 05:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 05:25	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.23.2020 05:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 05:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 05:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 05:25	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 05:25		
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.23.2020 05:25		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-40 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-028 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.7	4.96	mg/kg	05.23.2020 04:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 14:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 14:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 14:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 14:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	05.23.2020 14:52	
o-Terphenyl	84-15-1	106	%	70-130	05.23.2020 14:52	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-40 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-028

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 05:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 05:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 05:46	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.23.2020 05:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 05:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 05:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 05:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	05.23.2020 05:46		
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.23.2020 05:46		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-41 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-029 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.1	5.03	mg/kg	05.23.2020 04:28		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.24.2020 09:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.24.2020 09:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.24.2020 09:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.24.2020 09:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	05.24.2020 09:34	
o-Terphenyl	84-15-1	107	%	70-130	05.24.2020 09:34	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-41 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-029

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 06:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 06:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 06:06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 06:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 06:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 06:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 06:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 06:06		
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.23.2020 06:06		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-42 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-030 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	73.6	5.04	mg/kg	05.23.2020 04:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 15:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 15:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 15:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 15:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	05.23.2020 15:35	
o-Terphenyl	84-15-1	100	%	70-130	05.23.2020 15:35	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-42 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-030

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 06:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 06:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 06:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 06:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 06:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 06:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 06:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	05.23.2020 06:27		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.23.2020 06:27		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-43 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-031 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	73.2	5.01	mg/kg	05.23.2020 04:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 16:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 16:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 16:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 16:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	05.23.2020 16:19	
o-Terphenyl	84-15-1	103	%	70-130	05.23.2020 16:19	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-43 Comp 7'**

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-031

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 07:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 07:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 07:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 07:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 07:49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 07:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 07:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.23.2020 07:49		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.23.2020 07:49		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-44 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-032 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	66.4	4.98	mg/kg	05.23.2020 04:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 16:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.23.2020 16:41	
o-Terphenyl	84-15-1	96	%	70-130	05.23.2020 16:41	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-44 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-032

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 08:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 08:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 08:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 08:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 08:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 08:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 08:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	77	%	70-130	05.23.2020 08:09		
1,4-Difluorobenzene	540-36-3	101	%	70-130	05.23.2020 08:09		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-45 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-033 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 15:30 Basis: Wet Weight
 Seq Number: 3126841

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.8	4.99	mg/kg	05.23.2020 05:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 17:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.23.2020 17:03	
o-Terphenyl	84-15-1	99	%	70-130	05.23.2020 17:03	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-45 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-033

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 08:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 08:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 08:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 08:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 08:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 08:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 08:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.23.2020 08:30	
4-Bromofluorobenzene		460-00-4	110	%	70-130	05.23.2020 08:30	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-46 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-034 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.8	4.99	mg/kg	05.23.2020 06:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 17:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 17:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 17:24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 17:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.23.2020 17:24	
o-Terphenyl	84-15-1	95	%	70-130	05.23.2020 17:24	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-46 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-034

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 08:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 08:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 08:50	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 08:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 08:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 08:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 08:50	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 08:50		
4-Bromofluorobenzene	460-00-4	118	%	70-130	05.23.2020 08:50		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-47 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-035 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.3	5.04	mg/kg	05.23.2020 06:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 17:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 17:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 17:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 17:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	05.23.2020 17:46	
o-Terphenyl	84-15-1	97	%	70-130	05.23.2020 17:46	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-47 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-035

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 09:11	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 09:11	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 09:11	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.23.2020 09:11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 09:11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 09:11	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 09:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.23.2020 09:11	
4-Bromofluorobenzene		460-00-4	120	%	70-130	05.23.2020 09:11	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-48 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-036 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.5	5.01	mg/kg	05.23.2020 06:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 18:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.23.2020 18:08	
o-Terphenyl	84-15-1	97	%	70-130	05.23.2020 18:08	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-48 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-036

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 09:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 09:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 09:31	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.23.2020 09:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 09:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 09:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 09:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.23.2020 09:31		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.23.2020 09:31		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-49 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-037 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.6	5.03	mg/kg	05.23.2020 06:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	05.23.2020 18:30	
o-Terphenyl	84-15-1	95	%	70-130	05.23.2020 18:30	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-49 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-037

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 09:52	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 09:52	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 09:52	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.23.2020 09:52	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 09:52	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 09:52	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 09:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.23.2020 09:52		
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.23.2020 09:52		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-50 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-038 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.3	5.03	mg/kg	05.23.2020 07:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 18:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 18:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 18:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 18:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.23.2020 18:51	
o-Terphenyl	84-15-1	96	%	70-130	05.23.2020 18:51	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-50 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-038

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 10:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 10:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 10:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 10:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 10:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 10:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 10:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	05.23.2020 10:12		
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.23.2020 10:12		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-51 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-039 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	15.2	5.00	mg/kg	05.23.2020 07:28		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 19:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 19:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.23.2020 19:13	
o-Terphenyl	84-15-1	113	%	70-130	05.23.2020 19:13	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-51 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-039

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:30

Basis: Wet Weight

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 10:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 10:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 10:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 10:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 10:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 10:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 10:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.23.2020 10:33		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.23.2020 10:33		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-52 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-040 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.8	5.04	mg/kg	05.23.2020 07:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:32 Basis: Wet Weight
 Seq Number: 3126892

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 19:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 19:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 19:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 19:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.23.2020 19:34	
o-Terphenyl	84-15-1	96	%	70-130	05.23.2020 19:34	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-52 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-040

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:30

Basis: **Wet Weight**

Seq Number: 3126900

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 10:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 10:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 10:53	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.23.2020 10:53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 10:53	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 10:53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 10:53	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 10:53		
4-Bromofluorobenzene	460-00-4	111	%	70-130	05.23.2020 10:53		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-53 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-041 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.7	5.05	mg/kg	05.23.2020 07:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.22.2020 18:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.22.2020 18:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.22.2020 18:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.22.2020 18:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	05.22.2020 18:56	
o-Terphenyl	84-15-1	112	%	70-130	05.22.2020 18:56	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-53 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-041

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 13:58	UX	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 13:58	UX	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 13:58	UX	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.23.2020 13:58	UX	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 13:58	UX	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 13:58	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 13:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.23.2020 13:58		
1,4-Difluorobenzene	540-36-3	97	%	70-130	05.23.2020 13:58		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-54 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-042 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	81.4	5.02	mg/kg	05.23.2020 07:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.22.2020 19:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.22.2020 19:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.22.2020 19:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.22.2020 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	05.22.2020 19:51	
o-Terphenyl	84-15-1	105	%	70-130	05.22.2020 19:51	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-54 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-042

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 14:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 14:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 14:18	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.23.2020 14:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 14:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 14:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 14:18	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	120	%	70-130	05.23.2020 14:18	
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.23.2020 14:18	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-55 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-043 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.6	4.96	mg/kg	05.23.2020 08:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.22.2020 20:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.22.2020 20:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.22.2020 20:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.22.2020 20:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.22.2020 20:09	
o-Terphenyl	84-15-1	107	%	70-130	05.22.2020 20:09	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-55 Comp 7'**

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-043

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 14:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 14:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 14:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 14:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 14:39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 14:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 14:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	05.23.2020 14:39		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.23.2020 14:39		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-56 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-044 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	74.1	4.97	mg/kg	05.23.2020 08:16		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.22.2020 20:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.22.2020 20:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.22.2020 20:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.22.2020 20:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.22.2020 20:28	
o-Terphenyl	84-15-1	108	%	70-130	05.22.2020 20:28	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-56 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-044

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 14:59	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 14:59	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 14:59	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.23.2020 14:59	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 14:59	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 14:59	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 14:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.23.2020 14:59		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.23.2020 14:59		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-57 Comp 7'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-045 Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.2	4.99	mg/kg	05.23.2020 08:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.22.2020 20:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.22.2020 20:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.22.2020 20:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.22.2020 20:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	05.22.2020 20:47	
o-Terphenyl	84-15-1	107	%	70-130	05.22.2020 20:47	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-57 Comp 7'**

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-045

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 15:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 15:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 15:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.23.2020 15:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 15:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 15:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 15:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.23.2020 15:20	
4-Bromofluorobenzene		460-00-4	121	%	70-130	05.23.2020 15:20	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-4 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-046 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.2	4.96	mg/kg	05.23.2020 08:53		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.22.2020 21:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.22.2020 21:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.22.2020 21:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.22.2020 21:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.22.2020 21:06	
o-Terphenyl	84-15-1	98	%	70-130	05.22.2020 21:06	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-4 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-046

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:35

Basis: **Wet Weight**

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 15:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 15:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 15:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 15:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 15:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 15:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 15:40	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.23.2020 15:40		
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.23.2020 15:40		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-5 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-047 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.7	4.97	mg/kg	05.23.2020 09:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.22.2020 21:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.22.2020 21:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.22.2020 21:24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.22.2020 21:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.22.2020 21:24	
o-Terphenyl	84-15-1	95	%	70-130	05.22.2020 21:24	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-5 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: **662365-047**

Date Collected: **05.19.2020 00:00**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.22.2020 15:35**

Basis: **Wet Weight**

Seq Number: **3126901**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 16:01	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 16:01	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 16:01	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 16:01	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 16:01	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 16:01	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 16:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.23.2020 16:01		
4-Bromofluorobenzene	460-00-4	118	%	70-130	05.23.2020 16:01		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-6 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-048 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.04	mg/kg	05.23.2020 09:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.22.2020 21:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.22.2020 21:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.22.2020 21:43	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.22.2020 21:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.22.2020 21:43	
o-Terphenyl	84-15-1	96	%	70-130	05.22.2020 21:43	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-6 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-048

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:35

Basis: **Wet Weight**

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 16:22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 16:22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 16:22	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.23.2020 16:22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 16:22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 16:22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 16:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.23.2020 16:22		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.23.2020 16:22		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-7 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-049 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.51	5.01	mg/kg	05.23.2020 09:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.22.2020 22:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.22.2020 22:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.22.2020 22:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.22.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	05.22.2020 22:02	
o-Terphenyl	84-15-1	105	%	70-130	05.22.2020 22:02	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-7 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-049

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:35

Basis: **Wet Weight**

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 16:42	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 16:42	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 16:42	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 16:42	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 16:42	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 16:42	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 16:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	05.23.2020 16:42		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.23.2020 16:42		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-8 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-050 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.42	5.02	mg/kg	05.23.2020 09:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.22.2020 22:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.22.2020 22:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.22.2020 22:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.22.2020 22:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.22.2020 22:20	
o-Terphenyl	84-15-1	96	%	70-130	05.22.2020 22:20	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **WSW-8 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-050

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:35

Basis: **Wet Weight**

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 17:03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 17:03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 17:03	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 17:03	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 17:03	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 17:03	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 17:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 17:03		
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.23.2020 17:03		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **NSW-4 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-051 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	4.99	mg/kg	05.23.2020 10:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.22.2020 22:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.22.2020 22:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.22.2020 22:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.22.2020 22:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.22.2020 22:58	
o-Terphenyl	84-15-1	92	%	70-130	05.22.2020 22:58	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-4 Comp 7'

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-051

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 18:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 18:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 18:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 18:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 18:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 18:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 18:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	05.23.2020 18:27		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.23.2020 18:27		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-5 Comp 7' Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-052 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.6	4.97	mg/kg	05.23.2020 10:09		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.22.2020 23:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.22.2020 23:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.22.2020 23:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.22.2020 23:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	05.22.2020 23:16	
o-Terphenyl	84-15-1	97	%	70-130	05.22.2020 23:16	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-5 Comp 7'

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-052

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 18:47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 18:47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 18:47	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.23.2020 18:47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 18:47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 18:47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 18:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.23.2020 18:47		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.23.2020 18:47		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **NSW-6 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-053 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	133	4.96	mg/kg	05.23.2020 10:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.22.2020 23:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.22.2020 23:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.22.2020 23:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.22.2020 23:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-130	05.22.2020 23:35		
o-Terphenyl	84-15-1	95	%	70-130	05.22.2020 23:35		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-6 Comp 7'

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-053

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 19:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 19:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 19:08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.23.2020 19:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 19:08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 19:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 19:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.23.2020 19:08		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 19:08		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **NSW-7 Comp 7'** Matrix: **Soil** Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-054 Date Collected: 05.19.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.4	5.01	mg/kg	05.23.2020 11:04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126884

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.22.2020 23:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.22.2020 23:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.22.2020 23:53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.22.2020 23:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-130	05.22.2020 23:53		
o-Terphenyl	84-15-1	96	%	70-130	05.22.2020 23:53		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: NSW-7 Comp 7'

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-054

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.22.2020 15:35

Basis: Wet Weight

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 19:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 19:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 19:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 19:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 19:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 19:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 19:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.23.2020 19:28		
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.23.2020 19:28		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **SSW-4 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: **662365-055**

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: **3126843**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.87	5.00	mg/kg	05.23.2020 11:22		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: **3126884**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 00:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 00:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 00:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 00:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.23.2020 00:12	
o-Terphenyl	84-15-1	97	%	70-130	05.23.2020 00:12	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **SSW-4 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-055

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:35

Basis: **Wet Weight**

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 19:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 19:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 19:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.23.2020 19:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 19:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 19:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 19:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.23.2020 19:49		
1,4-Difluorobenzene	540-36-3	104	%	70-130	05.23.2020 19:49		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **SSW-5 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: **662365-056**

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: **3126843**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.62	5.00	mg/kg	05.23.2020 11:27		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: **3126884**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 00:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 00:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 00:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 00:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-130	05.23.2020 00:31		
o-Terphenyl	84-15-1	98	%	70-130	05.23.2020 00:31		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **SSW-5 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: **662365-056**

Date Collected: **05.19.2020 00:00**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.22.2020 15:35**

Basis: **Wet Weight**

Seq Number: **3126901**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 20:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 20:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 20:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 20:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 20:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 20:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 20:09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.23.2020 20:09	
4-Bromofluorobenzene		460-00-4	123	%	70-130	05.23.2020 20:09	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-4 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: **662365-057**

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: **3126843**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.93	4.96	mg/kg	05.23.2020 11:33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: **3126884**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 00:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 00:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 00:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 00:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.23.2020 00:50	
o-Terphenyl	84-15-1	96	%	70-130	05.23.2020 00:50	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-4 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: **662365-057**

Date Collected: **05.19.2020 00:00**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.22.2020 15:35**

Basis: **Wet Weight**

Seq Number: **3126901**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 20:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 20:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 20:30	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.23.2020 20:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 20:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 20:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 20:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	128	%	70-130	05.23.2020 20:30		
1,4-Difluorobenzene	540-36-3	104	%	70-130	05.23.2020 20:30		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: ESW-5 Comp 7'	Matrix: Soil	Date Received: 05.22.2020 09:45
Lab Sample Id: 662365-058	Date Collected: 05.19.2020 00:00	
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: SPC	% Moisture:	
Analyst: SPC	Date Prep: 05.22.2020 16:30	Basis: Wet Weight
Seq Number: 3126843		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.68	4.97	mg/kg	05.23.2020 11:39		1

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P
Tech: DVM	% Moisture:
Analyst: ARM	Date Prep: 05.22.2020 16:00
Seq Number: 3126884	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 01:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 01:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 01:09	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 01:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	05.23.2020 01:09	
o-Terphenyl	84-15-1	95	%	70-130	05.23.2020 01:09	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-5 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: **662365-058**

Date Collected: **05.19.2020 00:00**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.22.2020 15:35**

Basis: **Wet Weight**

Seq Number: **3126901**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 20:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 20:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 20:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 20:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 20:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 20:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 20:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.23.2020 20:50		
4-Bromofluorobenzene	460-00-4	124	%	70-130	05.23.2020 20:50		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-6 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: **662365-059**

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: **3126843**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.75	4.95	mg/kg	05.23.2020 11:56		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: **3126884**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 01:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 01:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 01:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 01:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-130	05.23.2020 01:28		
o-Terphenyl	84-15-1	96	%	70-130	05.23.2020 01:28		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-6 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: **662365-059**

Date Collected: **05.19.2020 00:00**

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **05.22.2020 15:35**

Basis: **Wet Weight**

Seq Number: **3126901**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 21:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 21:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 21:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 21:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 21:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 21:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 21:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.23.2020 21:11		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.23.2020 21:11		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-7 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: **662365-060**

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: **3126843**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.58	4.98	mg/kg	05.23.2020 12:02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: **3126884**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 01:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 01:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 01:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 01:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.23.2020 01:46	
o-Terphenyl	84-15-1	98	%	70-130	05.23.2020 01:46	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-7 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-060

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.22.2020 15:35

Basis: **Wet Weight**

Seq Number: 3126901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 21:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 21:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 21:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 21:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 21:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 21:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 21:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	128	%	70-130	05.23.2020 21:31		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.23.2020 21:31		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-8 Comp 7'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: **662365-061**

Date Collected: 05.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: **3126843**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.66	5.03	mg/kg	05.23.2020 12:07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: **3126885**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 03:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 03:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 03:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-130	05.23.2020 03:21		
o-Terphenyl	84-15-1	96	%	70-130	05.23.2020 03:21		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **ESW-8 Comp 7'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-061

Date Collected: 05.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **AMF**

% Moisture:

Analyst: **AMF**

Date Prep: 05.22.2020 17:00

Basis: **Wet Weight**

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 17:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 17:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 17:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 17:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 17:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 17:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 17:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.23.2020 17:15	
4-Bromofluorobenzene		460-00-4	103	%	70-130	05.23.2020 17:15	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-58 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-062 Date Collected: 05.20.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	5.02	mg/kg	05.23.2020 12:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 04:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 04:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 04:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 04:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.23.2020 04:17	
o-Terphenyl	84-15-1	110	%	70-130	05.23.2020 04:17	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-58 Comp 4'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-062

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 17:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 17:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 17:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 17:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 17:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 17:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 17:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	107	%	70-130	05.23.2020 17:36	
4-Bromofluorobenzene		460-00-4	117	%	70-130	05.23.2020 17:36	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-59 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-063 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	5.02	mg/kg	05.23.2020 12:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 04:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 04:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 04:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 04:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.23.2020 04:36	
o-Terphenyl	84-15-1	110	%	70-130	05.23.2020 04:36	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-59 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-063

Date Collected:05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.23.2020 17:56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.23.2020 17:56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.23.2020 17:56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.23.2020 17:56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.23.2020 17:56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.23.2020 17:56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.23.2020 17:56	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.23.2020 17:56		
4-Bromofluorobenzene	460-00-4	146	%	70-130	05.23.2020 17:56	**	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-60 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-064 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	114	5.00	mg/kg	05.23.2020 12:24	X	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.23.2020 04:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.23.2020 04:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.23.2020 04:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.23.2020 04:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	05.23.2020 04:55	
o-Terphenyl	84-15-1	107	%	70-130	05.23.2020 04:55	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-60 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-064

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.23.2020 18:16	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.23.2020 18:16	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.23.2020 18:16	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.23.2020 18:16	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.23.2020 18:16	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.23.2020 18:16	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.23.2020 18:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.23.2020 18:16		
1,4-Difluorobenzene	540-36-3	103	%	70-130	05.23.2020 18:16		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-61 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-065 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	4.99	mg/kg	05.23.2020 12:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 05:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 05:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 05:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 05:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.23.2020 05:13	
o-Terphenyl	84-15-1	108	%	70-130	05.23.2020 05:13	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-61 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-065

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 18:36	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 18:36	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 18:36	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.23.2020 18:36	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 18:36	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 18:36	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 18:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	05.23.2020 18:36		
1,4-Difluorobenzene	540-36-3	117	%	70-130	05.23.2020 18:36		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-62 Comp 4'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-066

Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	101	4.99	mg/kg	05.23.2020 12:47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 05:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 05:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 05:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 05:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	05.23.2020 05:32	
o-Terphenyl	84-15-1	108	%	70-130	05.23.2020 05:32	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-62 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-066

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00215	0.00199	mg/kg	05.23.2020 18:56		1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 18:56	U	1
Ethylbenzene	100-41-4	0.00467	0.00199	mg/kg	05.23.2020 18:56		1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 18:56	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 18:56	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 18:56	U	1
Total BTEX		0.00682	0.00199	mg/kg	05.23.2020 18:56		1
Surrogate							
1,4-Difluorobenzene	540-36-3	91	%	70-130	05.23.2020 18:56		
4-Bromofluorobenzene	460-00-4	79	%	70-130	05.23.2020 18:56		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-63 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-067 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	4.95	mg/kg	05.23.2020 13:04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 05:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 05:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 05:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 05:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	05.23.2020 05:51	
o-Terphenyl	84-15-1	106	%	70-130	05.23.2020 05:51	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-63 Comp 4'**

Matrix: Soil

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-067

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 19:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 19:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 19:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 19:16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 19:16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 19:16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 19:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.23.2020 19:16	
4-Bromofluorobenzene		460-00-4	148	%	70-130	05.23.2020 19:16	**



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-64 Comp 4'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-068

Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: **SPC**

% Moisture:

Analyst: **SPC**

Date Prep: 05.22.2020 16:30

Basis: **Wet Weight**

Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	5.02	mg/kg	05.23.2020 13:10		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: **DVM**

% Moisture:

Analyst: **ARM**

Date Prep: 05.22.2020 16:00

Basis: **Wet Weight**

Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 06:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 06:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 06:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 06:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	05.23.2020 06:10	
o-Terphenyl	84-15-1	105	%	70-130	05.23.2020 06:10	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-64 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-068

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 19:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 19:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 19:37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 19:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 19:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 19:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 19:37	U	1
Surrogate							
4-Bromofluorobenzene	460-00-4	156	%	70-130	05.23.2020 19:37	**	
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.23.2020 19:37		



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-65 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-069 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	120	5.04	mg/kg	05.23.2020 13:16		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.23.2020 06:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.23.2020 06:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.23.2020 06:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.23.2020 06:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	05.23.2020 06:28	
o-Terphenyl	84-15-1	104	%	70-130	05.23.2020 06:28	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-65 Comp 4'**

Matrix: **Soil**

Date Received: 05.22.2020 09:45

Lab Sample Id: 662365-069

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.23.2020 19:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.23.2020 19:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.23.2020 19:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.23.2020 19:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.23.2020 19:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.23.2020 19:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.23.2020 19:57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.23.2020 19:57	
4-Bromofluorobenzene		460-00-4	118	%	70-130	05.23.2020 19:57	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-66 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-070 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	122	4.98	mg/kg	05.23.2020 13:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 06:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 06:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 06:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 06:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	05.23.2020 06:47	
o-Terphenyl	84-15-1	107	%	70-130	05.23.2020 06:47	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-66 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-070

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.23.2020 20:17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.23.2020 20:17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.23.2020 20:17	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.23.2020 20:17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.23.2020 20:17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.23.2020 20:17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.23.2020 20:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	134	%	70-130	05.23.2020 20:17	**
1,4-Difluorobenzene		540-36-3	108	%	70-130	05.23.2020 20:17	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-67 Comp 4'** Matrix: Soil Date Received:05.22.2020 09:45
 Lab Sample Id: 662365-071 Date Collected: 05.20.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 05.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3126843

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	115	5.03	mg/kg	05.23.2020 13:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.22.2020 16:00 Basis: Wet Weight
 Seq Number: 3126885

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.23.2020 07:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.23.2020 07:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.23.2020 07:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.23.2020 07:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	05.23.2020 07:06	
o-Terphenyl	84-15-1	109	%	70-130	05.23.2020 07:06	



Certificate of Analytical Results 662365

Tetra Tech- Midland, Midland, TX

EOG - Bodacious BSM Federal #1H

Sample Id: **Bottomhole-67 Comp 4'**

Matrix: **Soil**

Date Received:05.22.2020 09:45

Lab Sample Id: 662365-071

Date Collected: 05.20.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 05.22.2020 17:00

Basis: Wet Weight

Seq Number: 3126931

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.23.2020 21:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.23.2020 21:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.23.2020 21:36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.23.2020 21:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.23.2020 21:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.23.2020 21:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.23.2020 21:36	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.23.2020 21:36		
4-Bromofluorobenzene	460-00-4	134	%	70-130	05.23.2020 21:36	**	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126840	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703982-1-BLK	LCS Sample Id: 7703982-1-BKS				Date Prep: 05.22.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	249	100	248	99	90-110	0	20
								mg/kg	05.22.2020 18:56

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126841	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703983-1-BLK	LCS Sample Id: 7703983-1-BKS				Date Prep: 05.22.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	245	98	248	99	90-110	1	20
								mg/kg	05.23.2020 00:31

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126842	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703984-1-BLK	LCS Sample Id: 7703984-1-BKS				Date Prep: 05.22.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	257	103	254	102	90-110	1	20
								mg/kg	05.23.2020 05:44

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126843	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7703985-1-BLK	LCS Sample Id: 7703985-1-BKS				Date Prep: 05.22.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	252	101	248	99	90-110	2	20
								mg/kg	05.23.2020 10:53

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126840	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-004	MS Sample Id: 662365-004 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	86.1	250	326	96	326	96	90-110	0	20
								mg/kg	05.22.2020 20:53

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126840	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662366-021	MS Sample Id: 662366-021 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	116	249	354	96	354	96	90-110	0	20
								mg/kg	05.22.2020 19:17

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126841	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-014	MS Sample Id: 662365-014 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	108	251	367	103	364	102	90-110	1	20
								Units	Analysis Date
								mg/kg	05.23.2020 01:00
									Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126841	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-024	MS Sample Id: 662365-024 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	61.5	248	314	102	327	107	90-110	4	20
								Units	Analysis Date
								mg/kg	05.23.2020 03:12
									Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126842	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-034	MS Sample Id: 662365-034 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	26.8	250	281	102	279	101	90-110	1	20
								Units	Analysis Date
								mg/kg	05.23.2020 06:12
									Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126842	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-044	MS Sample Id: 662365-044 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	74.1	249	315	97	315	97	90-110	0	20
								Units	Analysis Date
								mg/kg	05.23.2020 08:25
									Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126843	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-054	MS Sample Id: 662365-054 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	99.4	251	338	95	339	95	90-110	0	20
								Units	Analysis Date
								mg/kg	05.23.2020 11:10
									Flag

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3126843	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662365-064	MS Sample Id: 662365-064 S				Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	114	250	391	111	346	93	90-110	12	20
								Units	Analysis Date
								mg/kg	05.23.2020 12:30
									X

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

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

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

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Spike Amount	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
			LCS Result	LCS %Rec	LCSD Result	LCSD %Rec						
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1060	106	1040	104	70-130	2	20	mg/kg	05.22.2020 18:19	
Diesel Range Organics (DRO)	<50.0	1000	1130	113	1100	110	70-130	3	20	mg/kg	05.22.2020 18:19	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	112		126		126		70-130			%	05.22.2020 18:19	
o-Terphenyl	119		128		128		70-130			%	05.22.2020 18:19	

Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Spike Amount	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
			LCS Result	LCS %Rec	LCSD Result	LCSD %Rec						
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1060	106	1050	105	70-130	1	20	mg/kg	05.23.2020 02:43	
Diesel Range Organics (DRO)	<50.0	1000	982	98	1010	101	70-130	3	20	mg/kg	05.23.2020 02:43	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	114		124		128		70-130			%	05.23.2020 02:43	
o-Terphenyl	119		116		114		70-130			%	05.23.2020 02:43	

Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Spike Amount	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
			LCS Result	LCS %Rec	LCSD Result	LCSD %Rec						
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	829	83	805	81	70-130	3	20	mg/kg	05.23.2020 10:53	
Diesel Range Organics (DRO)	<50.0	1000	824	82	882	88	70-130	7	20	mg/kg	05.23.2020 10:53	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	87		88		84		70-130			%	05.23.2020 10:53	
o-Terphenyl	93		97		79		70-130			%	05.23.2020 10:53	

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

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

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

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: TPH By SW8015 Mod

Seq Number: 3126892

MB Sample Id: 7703961-1-BLK

Matrix: Solid

LCS Sample Id: 7703961-1-BKS

Prep Method: SW8015P

Date Prep: 05.22.2020

LCSD Sample Id: 7703961-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	927	93	972	97	70-130	5	20	mg/kg	05.23.2020 10:53	
Diesel Range Organics (DRO)	<50.0	1000	974	97	999	100	70-130	3	20	mg/kg	05.23.2020 10:53	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	113		116		119		70-130			%	05.23.2020 10:53	
o-Terphenyl	119		112		110		70-130			%	05.23.2020 10:53	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126884

Matrix: Solid

MB Sample Id: 7703958-1-BLK

Prep Method: SW8015P

Date Prep: 05.22.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.22.2020 18:00

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126885

Matrix: Solid

MB Sample Id: 7703959-1-BLK

Prep Method: SW8015P

Date Prep: 05.22.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.23.2020 02:24

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126891

Matrix: Solid

MB Sample Id: 7703960-1-BLK

Prep Method: SW8015P

Date Prep: 05.22.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.23.2020 10:31

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126892

Matrix: Solid

MB Sample Id: 7703961-1-BLK

Prep Method: SW8015P

Date Prep: 05.22.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.23.2020 10:31

 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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: TPH By SW8015 Mod

Seq Number: 3126884

Parent Sample Id: 662365-041

Matrix: Soil

MS Sample Id: 662365-041 S

Prep Method: SW8015P

Date Prep: 05.22.2020

MSD Sample Id: 662365-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	911	91	917	92	70-130	1	20	mg/kg	05.22.2020 19:14	
Diesel Range Organics (DRO)	<49.9	997	987	99	966	97	70-130	2	20	mg/kg	05.22.2020 19:14	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag						
1-Chlorooctane			123			121			70-130	%	05.22.2020 19:14	
o-Terphenyl			110			109			70-130	%	05.22.2020 19:14	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126885

Parent Sample Id: 662365-061

Matrix: Soil

MS Sample Id: 662365-061 S

Prep Method: SW8015P

Date Prep: 05.22.2020

MSD Sample Id: 662365-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	908	91	885	89	70-130	3	20	mg/kg	05.23.2020 03:39	
Diesel Range Organics (DRO)	<50.0	1000	892	89	870	87	70-130	2	20	mg/kg	05.23.2020 03:39	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag						
1-Chlorooctane			116			114			70-130	%	05.23.2020 03:39	
o-Terphenyl			106			102			70-130	%	05.23.2020 03:39	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3126891

Parent Sample Id: 662365-001

Matrix: Soil

MS Sample Id: 662365-001 S

Prep Method: SW8015P

Date Prep: 05.22.2020

MSD Sample Id: 662365-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	835	84	835	84	70-130	0	20	mg/kg	05.23.2020 11:58	
Diesel Range Organics (DRO)	<49.9	997	872	87	873	88	70-130	0	20	mg/kg	05.23.2020 11:58	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag						
1-Chlorooctane			90			89			70-130	%	05.23.2020 11:58	
o-Terphenyl			82			81			70-130	%	05.23.2020 11:58	

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

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

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

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: TPH By SW8015 Mod

Seq Number:	3126892	Matrix: Soil						Prep Method: SW8015P			
Parent Sample Id:	662365-021	MS Sample Id: 662365-021 S						Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<49.9	997	875	88	918	92	70-130	5	20	mg/kg	05.23.2020 11:58
Diesel Range Organics (DRO)	<49.9	997	938	94	976	98	70-130	4	20	mg/kg	05.23.2020 11:58
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag				Units	Analysis Date
1-Chlorooctane			106		110		70-130			%	05.23.2020 11:58
o-Terphenyl			105		110		70-130			%	05.23.2020 11:58

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126898	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7704006-1-BLK	LCS Sample Id: 7704006-1-BKS						Date Prep: 05.22.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.108	108	0.0988	99	70-130	9	35	mg/kg	05.22.2020 14:50
Toluene	<0.00200	0.100	0.107	107	0.100	100	70-130	7	35	mg/kg	05.22.2020 14:50
Ethylbenzene	<0.00200	0.100	0.100	100	0.0943	94	70-130	6	35	mg/kg	05.22.2020 14:50
m,p-Xylenes	<0.00400	0.200	0.200	100	0.191	96	70-130	5	35	mg/kg	05.22.2020 14:50
o-Xylene	<0.00200	0.100	0.0974	97	0.0935	94	70-130	4	35	mg/kg	05.22.2020 14:50
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag				Units	Analysis Date
1,4-Difluorobenzene	103		106		104		70-130			%	05.22.2020 14:50
4-Bromofluorobenzene	100		102		103		70-130			%	05.22.2020 14:50

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126900	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7704007-1-BLK	LCS Sample Id: 7704007-1-BKS						Date Prep: 05.22.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.0904	90	0.0920	92	70-130	2	35	mg/kg	05.23.2020 01:20
Toluene	<0.00200	0.100	0.0960	96	0.0980	98	70-130	2	35	mg/kg	05.23.2020 01:20
Ethylbenzene	<0.00200	0.100	0.0913	91	0.0932	93	70-130	2	35	mg/kg	05.23.2020 01:20
m,p-Xylenes	<0.00400	0.200	0.186	93	0.190	95	70-130	2	35	mg/kg	05.23.2020 01:20
o-Xylene	<0.00200	0.100	0.0923	92	0.0945	95	70-130	2	35	mg/kg	05.23.2020 01:20
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag				Units	Analysis Date
1,4-Difluorobenzene	103		102		101		70-130			%	05.23.2020 01:20
4-Bromofluorobenzene	100		106		108		70-130			%	05.23.2020 01:20

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: BTEX by EPA 8021B

Seq Number: 3126901

Matrix: Solid

Prep Method: SW5035A

MB Sample Id: 7704009-1-BLK

LCS Sample Id: 7704009-1-BKS

Date Prep: 05.22.2020

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0974	97	0.0977	98	70-130	0	35	mg/kg	05.24.2020 09:06	
Toluene	<0.00200	0.100	0.106	106	0.106	106	70-130	0	35	mg/kg	05.24.2020 09:06	
Ethylbenzene	<0.00200	0.100	0.104	104	0.104	104	70-130	0	35	mg/kg	05.24.2020 09:06	
m,p-Xylenes	<0.00400	0.200	0.212	106	0.213	107	70-130	0	35	mg/kg	05.24.2020 09:06	
o-Xylene	<0.00200	0.100	0.103	103	0.104	104	70-130	1	35	mg/kg	05.24.2020 09:06	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	103		103			104			70-130	%	05.24.2020 09:06	
4-Bromofluorobenzene	98		108			111			70-130	%	05.24.2020 09:06	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3126931

Matrix: Solid

Prep Method: SW5035A

MB Sample Id: 7704038-1-BLK

LCS Sample Id: 7704038-1-BKS

Date Prep: 05.22.2020

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.100	100	0.0993	99	70-130	1	35	mg/kg	05.23.2020 14:53	
Toluene	<0.00200	0.100	0.0930	93	0.0944	94	70-130	1	35	mg/kg	05.23.2020 14:53	
Ethylbenzene	<0.00200	0.100	0.0922	92	0.0956	96	70-130	4	35	mg/kg	05.23.2020 14:53	
m,p-Xylenes	<0.00400	0.200	0.170	85	0.179	90	70-130	5	35	mg/kg	05.23.2020 14:53	
o-Xylene	<0.00200	0.100	0.0870	87	0.0907	91	70-130	4	35	mg/kg	05.23.2020 14:53	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene	88		98			101			70-130	%	05.23.2020 14:53	
4-Bromofluorobenzene	90		159	**		169	**		70-130	%	05.23.2020 14:53	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3126898

Matrix: Soil

Prep Method: SW5035A

Parent Sample Id: 662365-001

MS Sample Id: 662365-001 S

Date Prep: 05.22.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.105	106	0.134	134	70-130	24	35	mg/kg	05.22.2020 15:31	X
Toluene	<0.00199	0.0994	0.107	108	0.134	134	70-130	22	35	mg/kg	05.22.2020 15:31	X
Ethylbenzene	<0.00199	0.0994	0.103	104	0.123	123	70-130	18	35	mg/kg	05.22.2020 15:31	
m,p-Xylenes	<0.00398	0.199	0.210	106	0.249	125	70-130	17	35	mg/kg	05.22.2020 15:31	
o-Xylene	<0.00199	0.0994	0.101	102	0.122	122	70-130	19	35	mg/kg	05.22.2020 15:31	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1,4-Difluorobenzene			105		105		70-130			%	05.22.2020 15:31	
4-Bromofluorobenzene			109		109		70-130			%	05.22.2020 15:31	

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



QC Summary 662365

Tetra Tech- Midland
 EOG - Bodacious BSM Federal #1H
Analytical Method: BTEX by EPA 8021B

Seq Number:	3126900	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662365-021	MS Sample Id: 662365-021 S						Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00201	0.101	0.0896	89	0.0723	73	70-130	21	35	mg/kg	05.23.2020 02:01
Toluene	<0.00201	0.101	0.0926	92	0.0764	77	70-130	19	35	mg/kg	05.23.2020 02:01
Ethylbenzene	<0.00201	0.101	0.0870	86	0.0726	73	70-130	18	35	mg/kg	05.23.2020 02:01
m,p-Xylenes	<0.00402	0.201	0.175	87	0.148	75	70-130	17	35	mg/kg	05.23.2020 02:01
o-Xylene	<0.00201	0.101	0.0876	87	0.0745	75	70-130	16	35	mg/kg	05.23.2020 02:01
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene			105		105		70-130		%	05.23.2020 02:01	
4-Bromofluorobenzene			111		111		70-130		%	05.23.2020 02:01	

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126901	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662365-041	MS Sample Id: 662365-041 S						Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00199	0.0994	0.0329	33	0.0405	41	70-130	21	35	mg/kg	05.23.2020 12:36 X
Toluene	<0.00199	0.0994	0.0368	37	0.0443	44	70-130	18	35	mg/kg	05.23.2020 12:36 X
Ethylbenzene	<0.00199	0.0994	0.0356	36	0.0425	43	70-130	18	35	mg/kg	05.23.2020 12:36 X
m,p-Xylenes	<0.00398	0.199	0.0759	38	0.0885	44	70-130	15	35	mg/kg	05.23.2020 12:36 X
o-Xylene	<0.00199	0.0994	0.0420	42	0.0475	48	70-130	12	35	mg/kg	05.23.2020 12:36 X
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene			106		107		70-130		%	05.23.2020 12:36	
4-Bromofluorobenzene			124		116		70-130		%	05.23.2020 12:36	

Analytical Method: BTEX by EPA 8021B

Seq Number:	3126931	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662365-061	MS Sample Id: 662365-061 S						Date Prep: 05.22.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00198	0.0992	0.0892	90	0.101	101	70-130	12	35	mg/kg	05.23.2020 15:34
Toluene	<0.00198	0.0992	0.0816	82	0.0931	93	70-130	13	35	mg/kg	05.23.2020 15:34
Ethylbenzene	<0.00198	0.0992	0.0809	82	0.0923	93	70-130	13	35	mg/kg	05.23.2020 15:34
m,p-Xylenes	<0.00397	0.198	0.149	75	0.172	86	70-130	14	35	mg/kg	05.23.2020 15:34
o-Xylene	<0.00198	0.0992	0.0774	78	0.0868	87	70-130	11	35	mg/kg	05.23.2020 15:34
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene			105		104		70-130		%	05.23.2020 15:34	
4-Bromofluorobenzene			167	**	164	**	70-130		%	05.23.2020 15:34	

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

L6023605

Page _____ 1 of 8

Client Name: EOG Site Manager: Mike Carmona

Project Name: Bodacious BSM Federal #1H

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

Invoice To:

James Kennedy

Receiving Laboratory:

Xenco

Sampler Signature: Devin Dominguez

Comments:

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		DATE YEAR: 2020	TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONTAINERS	SAMPLING		MATRIX	PRESERVATIVE METHOD	ANALYSIS REQUEST	
	DATE	TIME											
NSW-3 comp 10'	5/19/2020	X	X	X	X	X	1	N	X	BTEX 8021B	BTEX 8260B		
Bottomhole-14 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	TPH TX1005 (Ext to C35)			
Bottomhole-15 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)			
Bottomhole-16 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	PAH 8270C			
Bottomhole-17 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg			
Bottomhole-18 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			
Bottomhole-19 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	TCLP Volatiles			
Bottomhole-20 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	TCLP Semi Volatiles			
Bottomhole-21 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	RCI			
Bottomhole-22 comp 7'	5/19/2020	X	X	X	X	X	1	N	X	GC/MS Vol. 8260B / 624			
Relinquished by: <i>SJ</i> SJ	Date: Time: Received by: Date: Time: Reدهد by: Date: Time: Received by: Date: Time: Relinquished by: Date: Time:	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	Sample Temperature 32/29	Special Report Limits or TRRP Report								

ORIGINAL COPY

四

Tetra Tech Inc

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

(Circle or Specify Method No.)																																																																																																																																																																																																																																																																																
ANALYSIS REQUEST																																																																																																																																																																																																																																																																																
Client Name:		EOG		Project Name:		Bodacious BSM Federal #1H		Site Manager:		Mike Carmona																																																																																																																																																																																																																																																																						
Project Location: (county state)		Eddy County, New Mexico		Project #:		212C-MD-02190		Invoice to:																																																																																																																																																																																																																																																																								
Receiving Laboratory:		James Kennedy Xenco		Sampler Signature:		Devin Dominguez		Comments:																																																																																																																																																																																																																																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB # (LAB USE ONLY)</th> <th colspan="2">SAMPLE IDENTIFICATION</th> <th colspan="2">SAMPLING</th> <th rowspan="2">MATRIX</th> <th rowspan="2">PRESERVATIVE METHOD</th> <th rowspan="2"># CONTAINERS</th> <th colspan="4">TESTS REQUESTED</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th>WATER</th> <th>SOIL</th> <th>HCL</th> <th>HNO₃</th> <th>ICE</th> <th>None</th> <th>FILTERED (Y/N)</th> </tr> </thead> <tbody> <tr><td>Bottomhole-23 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>BTEX 8021B</td><td>BTEX 8260B</td></tr> <tr><td>Bottomhole-24 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>TPH TX1005 (Ext to C35)</td><td></td></tr> <tr><td>Bottomhole-25 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>TPH 8015M (GRO - DRO - ORO - MRO)</td><td></td></tr> <tr><td>Bottomhole-26 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>PAH 8270C</td><td></td></tr> <tr><td>Bottomhole-27 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>Total Metals Ag</td><td>As Ba Cd Cr Pb Se Hg</td></tr> <tr><td>Bottomhole-28 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>TCLP Metals Ag</td><td>As Ba Cd Cr Pb Se Hg</td></tr> <tr><td>Bottomhole-29 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>TCLP Volatiles</td><td></td></tr> <tr><td>Bottomhole-30 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>TCLP Semi Volatiles</td><td></td></tr> <tr><td>Bottomhole-31 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>RCI</td><td></td></tr> <tr><td>Bottomhole-32 comp 7'</td><td>5/19/2020</td><td>X</td><td>X</td><td>X</td><td>X</td><td>1</td><td>N</td><td>X</td><td>X</td><td>GC/MS Vol. 8260B / 624</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>GC/MS Semi. Vol. 8270C/625</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PCB's 8082 / 608</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>NORM</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>PLM (Asbestos)</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Chloride</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Chloride Sulfate TDS</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>General Water Chemistry (see attached list)</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Anion/Cation Balance</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>TPH 8015R</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hold</td><td></td></tr> </tbody> </table>												LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	TESTS REQUESTED				DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None	FILTERED (Y/N)	Bottomhole-23 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	BTEX 8021B	BTEX 8260B	Bottomhole-24 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TPH TX1005 (Ext to C35)		Bottomhole-25 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TPH 8015M (GRO - DRO - ORO - MRO)		Bottomhole-26 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	PAH 8270C		Bottomhole-27 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	Total Metals Ag	As Ba Cd Cr Pb Se Hg	Bottomhole-28 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TCLP Metals Ag	As Ba Cd Cr Pb Se Hg	Bottomhole-29 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TCLP Volatiles		Bottomhole-30 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TCLP Semi Volatiles		Bottomhole-31 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	RCI		Bottomhole-32 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	GC/MS Vol. 8260B / 624												GC/MS Semi. Vol. 8270C/625												PCB's 8082 / 608												NORM												PLM (Asbestos)												Chloride												Chloride Sulfate TDS												General Water Chemistry (see attached list)												Anion/Cation Balance												TPH 8015R												Hold	
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	TESTS REQUESTED																																																																																																																																																																																																																																																																								
	DATE	TIME	WATER	SOIL				HCL	HNO ₃	ICE	None	FILTERED (Y/N)																																																																																																																																																																																																																																																																				
Bottomhole-23 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	BTEX 8021B	BTEX 8260B																																																																																																																																																																																																																																																																					
Bottomhole-24 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TPH TX1005 (Ext to C35)																																																																																																																																																																																																																																																																						
Bottomhole-25 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TPH 8015M (GRO - DRO - ORO - MRO)																																																																																																																																																																																																																																																																						
Bottomhole-26 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	PAH 8270C																																																																																																																																																																																																																																																																						
Bottomhole-27 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	Total Metals Ag	As Ba Cd Cr Pb Se Hg																																																																																																																																																																																																																																																																					
Bottomhole-28 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TCLP Metals Ag	As Ba Cd Cr Pb Se Hg																																																																																																																																																																																																																																																																					
Bottomhole-29 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TCLP Volatiles																																																																																																																																																																																																																																																																						
Bottomhole-30 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	TCLP Semi Volatiles																																																																																																																																																																																																																																																																						
Bottomhole-31 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	RCI																																																																																																																																																																																																																																																																						
Bottomhole-32 comp 7'	5/19/2020	X	X	X	X	1	N	X	X	GC/MS Vol. 8260B / 624																																																																																																																																																																																																																																																																						
										GC/MS Semi. Vol. 8270C/625																																																																																																																																																																																																																																																																						
										PCB's 8082 / 608																																																																																																																																																																																																																																																																						
										NORM																																																																																																																																																																																																																																																																						
										PLM (Asbestos)																																																																																																																																																																																																																																																																						
										Chloride																																																																																																																																																																																																																																																																						
										Chloride Sulfate TDS																																																																																																																																																																																																																																																																						
										General Water Chemistry (see attached list)																																																																																																																																																																																																																																																																						
										Anion/Cation Balance																																																																																																																																																																																																																																																																						
										TPH 8015R																																																																																																																																																																																																																																																																						
										Hold																																																																																																																																																																																																																																																																						
Relinquished by: 		Date: Time:		Received by: 		Date: Time:		LAB USE ONLY		REMARKS:																																																																																																																																																																																																																																																																						
Relinquished by:				Received by:				<input checked="" type="checkbox"/> STANDARD		<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr <input checked="" type="checkbox"/> 72 hr																																																																																																																																																																																																																																																																						
Reinquished by:		Date: Time:		Received by:		Date: Time:		<input type="checkbox"/> Rush Charges Authorized		<input type="checkbox"/> Special Report Limits or TRRP Report																																																																																																																																																																																																																																																																						
(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____																																																																																																																																																																																																																																																																																

ORIGINAL COPY



Tetra Tech, Inc.

900 West Wall Street, Site 100
Midland, Texas 79701
Tel (432) 682-4959
Fax (432) 682-3946

1062365

Page _____ 3 of _____ 8

Received by OCD: 2/24/2022 12:25:11 PM

Client Name:		Site Manager:		(Circle or Specify Method No.)																											
Project Name:	Bodacious BSM Federal #1H	Project #:																													
Project Location:	Eddy County, New Mexico	Project #:																													
(county, state)		212C-MD-02190																													
Invoice to:	James Kennedy	Sampler Signature:																													
Receiving Laboratory:	Xenco	Devin Dominguez																													
Comments:																															
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		ANALYSIS REQUEST																						
	YEAR	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R
Bottomhole-33 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-34 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-35 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-36 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-37 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-38 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-39 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-40 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-41 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-42 comp 7'	5/19/2020		X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Received by: <i>J. L. Palmer</i> Date: 5/19/2020 Time: 9:45 AM	LAB USE ONLY	REMARKS:	<input type="checkbox"/> STANDARD																												
Received by: <i>J. L. Palmer</i> Date: 5/19/2020 Time: 9:45 AM	Sample Temperature	RUSH: Same Day 24 hr 48 hr 72 hr	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr																												
Received by: <i>J. L. Palmer</i> Date: 5/19/2020 Time: 9:45 AM	Rush Charges Authorized	<input type="checkbox"/> Rush Charges Authorized																													
Received by: <i>J. L. Palmer</i> Date: 5/19/2020 Time: 9:45 AM	Special Report Limits or TRRP Report	<input type="checkbox"/> Special Report Limits or TRRP Report																													
(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____																															

ORIGINAL COPY



Tetra Tech, Inc.

1062365
900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

EOG

Mike Carmona

Bodacious BSM Federal #1H

Project #: 212C-MD-02190

(county, state)

Eddy County, New Mexico

Invoice to:

James Kennedy

Receiving Laboratory:

Xenco

Comments:

Sampler Signature:

Devin Dominguez

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bodacious BSM Federal #1H

Project Location:

Eddy County, New Mexico

Project #:

212C-MD-02190

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None	# CONTAINERS	PRESERVATIVE METHOD	SAMPLING		MATRIX
	Received by:	Date: Time:												Received by:	Date: Time:	
Bottomhole-43 comp 7'	5/19/2020	X												X	BTEX 8021B	BTEX 8260B
Bottomhole-44 comp 7'	5/19/2020	X												X	TPH TX1005 (Ext to C35)	
Bottomhole-45 comp 7'	5/19/2020	X												X	TPH 8015M (GRO - DRO - ORO - MRO)	
Bottomhole-46 comp 7'	5/19/2020	X												X	PAH 8270C	
Bottomhole-47 comp 7'	5/19/2020	X												X	Total Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-48 comp 7'	5/19/2020	X												X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-49 comp 7'	5/19/2020	X												X	TCLP Volatiles	
Bottomhole-50 comp 7'	5/19/2020	X												X	TCLP Semi Volatiles	
Bottomhole-51 comp 7'	5/19/2020	X												X	RCI	
Bottomhole-52 comp 7'	5/19/2020	X												X	GC/MS Vol. 8260B / 624	
		X												X	GC/MS Semi. Vcl. 8270C/625	
		X												X	PCB's 8082 / 608	
		X												X	NORM	
		X												X	PLM (Asbestos)	
		X												X	Chloride	
		X												X	Chloride Sulfate TDS	
		X												X	General Water Chemistry (see attached list)	
		X												X	Anion/Cation Balance	
		X												X	TPH 8015R	
		X												X	Hold	

Received by:	Date: Time:	LAB USE ONLY	REMARKS:
Received by:	Date: Time:	<input type="checkbox"/> STANDARD	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
Received by:	Date: Time:	<input type="checkbox"/> Rush Charges Authorized	<input type="checkbox"/> Special Report Limits or TBRP Report
(Circle) HAND DELIVERED FEDEX UPS Tracking #:			

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

1002365 Page 5 of 8

Client Name:

EOG

Site Manager:

Mike Carmona

Project Name:

Bodacious BSM Federal #1H

Project Location:

(county state)
Eddy County, New Mexico

Project #:

212C-MD-02190

Invoice to:

James Kennedy

Receiving Laboratory:

Xenco

Sampler Signature:

Devin Dominguez

Comments:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING YEAR: 2020	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B
	DATE	TIME							
Bottomhole-53 comp 7'	5/19/2020	X	WATER SOIL	HCL HNO ₃ ICE None		1	N	X	TPH TX1005 (Ext to C35)
Bottomhole-54 comp 7'	5/19/2020	X		X		1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)
Bottomhole-55 comp 7'	5/19/2020	X		X		1	N	X	PAH 8270C
Bottomhole-56 comp 7'	5/19/2020	X		X		1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
Bottomhole-57 comp 7'	5/19/2020	X		X		1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
WSW-4 comp 7'	5/19/2020	X		X		1	N	X	TCLP Volatiles
WSW-5 comp 7'	5/19/2020	X		X		1	N	X	TCLP Semi Volatiles
WSW-6 comp 7'	5/19/2020	X		X		1	N	X	RCI
WSW-7 comp 7'	5/19/2020	X		X		1	N	X	GC/MS Vol. 8260B / 624
WSW-8 comp 7'	5/19/2020	X		X		1	N	X	GC/MS Semi. Vol. 8270C/625
									PCB's 8082 / 608
									NORM
									PLM (Asbestos)
									Chloride
									Chloride Sulfate TDS
									General Water Chemistry (see attached list)
									Anion/Cation Balance
									TPH 8015R
									Hold

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

Received by:

Date: Time:
5/19/2020 10:00 AM

Relinquished by:

Date: Time:
5/19/2020 10:00 AM

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRBP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

三

Tetra Tech, Inc.

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

by OCD: 2/24/2022 12:25:11 PM						(Circle or Specify Method No.)		
Client Name:		EOG		Site Manager:		Mike Carmona		
Project Name:		Bodacious BSM Federal #1H						
Project Location: (county, state)		Eddy County, New Mexico		Project #:		212C-MD-02190		
Invoice to:								
Receiving Laboratory:		James Kennedy Xenco		Sampler Signature:		Devin Dominguez		
Comments:								
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	
	DATE	TIME	YEAR: 2020		WATER SOIL	HCL HNO ₃ ICE None		
NSW-4 comp 7'	5/19/2020		X	X	1	N	X	X
NSW-5 comp 7'	5/19/2020		X		1	N	X	X
NSW-6 comp 7'	5/19/2020		X		1	N	X	X
NSW-7 comp 7'	5/19/2020		X		1	N	X	X
SSW-4 comp 7'	5/19/2020		X		1	N	X	X
SSW-5 comp 7'	5/19/2020		X		1	N	X	X
ESW-4 comp 7'	5/19/2020		X		1	N	X	X
ESW-5 comp 7'	5/19/2020		X		1	N	X	X
ESW-6 comp 7'	5/19/2020		X		1	N	X	X
ESW-7 comp 7'	5/19/2020		X		1	N	X	X
Relinquished by: <i>J. Kennedy</i> Date: 5/22/2020 Time: 9:45 AM Received by: <i>J. Kennedy</i> Date: 5/22/2020 Time: 9:45 AM								
Relinquished by: _____		Date: _____ Time: _____		Sample Temperature		LAB USE ONLY		
Relinquished by: _____		Date: _____ Time: _____				<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	<input type="checkbox"/> STANDARD	
Relinquished by: _____		Date: _____ Time: _____				<input type="checkbox"/> Rush Charges Authorized	<input type="checkbox"/> Special Report Limits or TRAPP Report	
						(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____		

ORIGINAL COPY



Tetra Tech, Inc.

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

1602365

Page 7 of 8



Analysis Request of Chain of Custody Record

Client Name:		Site Manager:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
EOG		Mike Carmona																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project Name:		Bodacious BSM Federal #1H																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project Location: (county / state)		Eddy County, New Mexico																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Project #:		212C-MD-02190																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Invoice to:		James Kennedy																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Receiving Laboratory:		Xenco																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Comments:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 20%;">LAB # (LAB USE ONLY)</th> <th rowspan="2" style="width: 40%;">SAMPLE IDENTIFICATION</th> <th colspan="2" style="width: 20%;">SAMPLING</th> <th rowspan="2" style="width: 10%;">MATRIX</th> <th rowspan="2" style="width: 10%;">PRESERVATIVE METHOD</th> <th rowspan="2" style="width: 10%;"># CONTAINERS</th> <th rowspan="2" style="width: 10%;">FILTERED (Y/N)</th> </tr> <tr> <th style="width: 10%;">DATE</th> <th style="width: 10%;">TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td>ESW-8 comp 7'</td> <td>5/19/2020</td> <td>X</td> <td>WATER SOIL</td> <td>HCL HNO₃ ICE None</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-58 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-59 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-60 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-61 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-62 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-63 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-64 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-65 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td></td> <td>Bottomhole-66 comp 4'</td> <td>5/20/2020</td> <td>X</td> <td></td> <td>X</td> <td>1</td> <td>N</td> </tr> <tr> <td colspan="8" style="text-align: center; padding-top: 10px;"> ANALYSIS REQUEST (Circle or Specify Method No.) </td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">LAB USE ONLY</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">REMARKS:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;"><input type="checkbox"/> STANDARD</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;"><input type="checkbox"/> HOLD</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;"><input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;"><input type="checkbox"/> SPECIAL REPORT LIMITS OR TARP REPORT</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;"><input type="checkbox"/> RUSH CHARGES AUTHORIZED</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;"><input type="checkbox"/> SPECIAL REPORT LIMITS OR TARP REPORT</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">(Circle) HAND DELIVERED FEDEX UPS Tracking #:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;"></td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">RECEIVED BY:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> <td colspan="6" style="text-align: center; padding-bottom: 5px;">Date: Time: Date: Time:</td> </tr> <tr> <td colspan="2" style="text-align: center; padding-bottom: 5px;">RELINQUISHED BY:</td> <td colspan="6"</tr></tbody></table>				LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	DATE	TIME		ESW-8 comp 7'	5/19/2020	X	WATER SOIL	HCL HNO ₃ ICE None	1	N		Bottomhole-58 comp 4'	5/20/2020	X		X	1	N		Bottomhole-59 comp 4'	5/20/2020	X		X	1	N		Bottomhole-60 comp 4'	5/20/2020	X		X	1	N		Bottomhole-61 comp 4'	5/20/2020	X		X	1	N		Bottomhole-62 comp 4'	5/20/2020	X		X	1	N		Bottomhole-63 comp 4'	5/20/2020	X		X	1	N		Bottomhole-64 comp 4'	5/20/2020	X		X	1	N		Bottomhole-65 comp 4'	5/20/2020	X		X	1	N		Bottomhole-66 comp 4'	5/20/2020	X		X	1	N	ANALYSIS REQUEST (Circle or Specify Method No.)								LAB USE ONLY		REMARKS:						<input type="checkbox"/> STANDARD		<input type="checkbox"/> HOLD						<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr		<input type="checkbox"/> SPECIAL REPORT LIMITS OR TARP REPORT						<input type="checkbox"/> RUSH CHARGES AUTHORIZED		<input type="checkbox"/> SPECIAL REPORT LIMITS OR TARP REPORT						(Circle) HAND DELIVERED FEDEX UPS Tracking #:								RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:		RECEIVED BY:						Date: Time: Date: Time:		Date: Time: Date: Time:						RELINQUISHED BY:	
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING				MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	ESW-8 comp 7'	5/19/2020	X	WATER SOIL	HCL HNO ₃ ICE None	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-58 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-59 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-60 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-61 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-62 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-63 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-64 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-65 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Bottomhole-66 comp 4'	5/20/2020	X		X	1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
ANALYSIS REQUEST (Circle or Specify Method No.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
LAB USE ONLY		REMARKS:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<input type="checkbox"/> STANDARD		<input type="checkbox"/> HOLD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr		<input type="checkbox"/> SPECIAL REPORT LIMITS OR TARP REPORT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<input type="checkbox"/> RUSH CHARGES AUTHORIZED		<input type="checkbox"/> SPECIAL REPORT LIMITS OR TARP REPORT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
(Circle) HAND DELIVERED FEDEX UPS Tracking #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:		RECEIVED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Date: Time: Date: Time:		Date: Time: Date: Time:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
RELINQUISHED BY:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1062365

Page 8 of 8

Client Name: EOG		Site Manager: Mike Carmona		(Circle or Specify Method No.)																																																																																																																																																								
Project Name: Bodacious BSM Federal #1H		Project Location: (county, state) Eddy County, New Mexico																																																																																																																																																										
Invoice to: James Kennedy		Project #: 212C-MD-02190																																																																																																																																																										
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez																																																																																																																																																										
Comments:																																																																																																																																																												
<table border="1"> <thead> <tr> <th rowspan="2">LAB # (LAB USE ONLY)</th> <th colspan="2">SAMPLE IDENTIFICATION</th> <th rowspan="2">MATRIX</th> <th rowspan="2">PRESERVATIVE METHOD</th> </tr> <tr> <th>YEAR: 2020</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>WATER</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>SOIL</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>HCL</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>HNO₃</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>ICE</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>None</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td># CONTAINERS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>N FILTERED (Y/N)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X BTEX 8021B BTEX 8260B</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>TPH TX1005 (Ext to C35)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X TPH 8015M (GRO - DRO - ORO - MRO)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>PAH 8270C</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Total Metals Ag As Ba Cd Cr Pb Se Hg</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>TCLP Volatiles</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>TCLP Semi Volatiles</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>RCI</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>GC/MS Vol. 8260B / 624</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>GC/MS Semi. Vol. 8270C/625</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>PCB's 8082 / 608</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>NORM</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>PLM (Asbestos)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X Chloride</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Chloride Sulfate TDS</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>General Water Chemistry (see attached list)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Anion/Cation Balance</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>TPH 8015R</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Hold</td> </tr> </tbody> </table>					LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		MATRIX	PRESERVATIVE METHOD	YEAR: 2020	DATE				WATER					SOIL					HCL					HNO ₃					ICE					None						# CONTAINERS					1					N FILTERED (Y/N)					X BTEX 8021B BTEX 8260B					TPH TX1005 (Ext to C35)					X TPH 8015M (GRO - DRO - ORO - MRO)					PAH 8270C					Total Metals Ag As Ba Cd Cr Pb Se Hg					TCLP Metals Ag As Ba Cd Cr Pb Se Hg					TCLP Volatiles					TCLP Semi Volatiles					RCI					GC/MS Vol. 8260B / 624					GC/MS Semi. Vol. 8270C/625					PCB's 8082 / 608					NORM					PLM (Asbestos)					X Chloride					Chloride Sulfate TDS					General Water Chemistry (see attached list)					Anion/Cation Balance					TPH 8015R					Hold
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		MATRIX	PRESERVATIVE METHOD																																																																																																																																																								
	YEAR: 2020	DATE																																																																																																																																																										
			WATER																																																																																																																																																									
			SOIL																																																																																																																																																									
			HCL																																																																																																																																																									
			HNO ₃																																																																																																																																																									
			ICE																																																																																																																																																									
			None																																																																																																																																																									
				# CONTAINERS																																																																																																																																																								
				1																																																																																																																																																								
				N FILTERED (Y/N)																																																																																																																																																								
				X BTEX 8021B BTEX 8260B																																																																																																																																																								
				TPH TX1005 (Ext to C35)																																																																																																																																																								
				X TPH 8015M (GRO - DRO - ORO - MRO)																																																																																																																																																								
				PAH 8270C																																																																																																																																																								
				Total Metals Ag As Ba Cd Cr Pb Se Hg																																																																																																																																																								
				TCLP Metals Ag As Ba Cd Cr Pb Se Hg																																																																																																																																																								
				TCLP Volatiles																																																																																																																																																								
				TCLP Semi Volatiles																																																																																																																																																								
				RCI																																																																																																																																																								
				GC/MS Vol. 8260B / 624																																																																																																																																																								
				GC/MS Semi. Vol. 8270C/625																																																																																																																																																								
				PCB's 8082 / 608																																																																																																																																																								
				NORM																																																																																																																																																								
				PLM (Asbestos)																																																																																																																																																								
				X Chloride																																																																																																																																																								
				Chloride Sulfate TDS																																																																																																																																																								
				General Water Chemistry (see attached list)																																																																																																																																																								
				Anion/Cation Balance																																																																																																																																																								
				TPH 8015R																																																																																																																																																								
				Hold																																																																																																																																																								
Relinquished by: <i>SJ/K</i>	Date: Time: Received by: Date: Time: <i>J. Kennedy 5/20 945</i>	LAB USE ONLY	REMARKS: <input type="checkbox"/> STANDARD																																																																																																																																																									
Reinstituted by: <i>SJ/K</i>	Date: Time: Received by: Date: Time: <i>J. Kennedy 5/20 945</i>	Sample Temperature	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized																																																																																																																																																									
Relinquished by: <i>SJ/K</i>	Date: Time: Received by: Date: Time: <i>J. Kennedy 5/20 945</i>		<input type="checkbox"/> Special Report Limits or TBRP Report																																																																																																																																																									
<input type="checkbox"/> HAND DELIVERED <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS Tracking #: _____																																																																																																																																																												

XENCO Laboratories**Prelogin/Nonconformance Report- Sample Log-In****Client:** Tetra Tech- Midland**Date/ Time Received:** 05.22.2020 09.45.00 AM**Work Order #:** 662365

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	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**

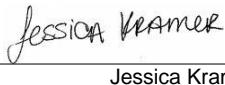
Analyst:

PH Device/Lot#:

Checklist completed by:


Allison Johnson

Date: 05.22.2020

Checklist reviewed by:


Jessica Kramer

Date: 05.22.2020



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-001 Bottomhole-68 comp 4'	662898-002 Bottomhole-69 comp 4'	662898-003 Bottomhole-70 comp 4'	662898-004 Bottomhole-71 comp 4'	662898-005 Bottomhole-72 comp 4'	662898-006 Bottomhole-73 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:01 05.29.2020 01:50 mg/kg	05.28.2020 17:01 05.29.2020 02:10 RL	05.28.2020 17:01 05.29.2020 02:31 mg/kg	05.28.2020 17:01 05.29.2020 02:51 RL	05.28.2020 17:01 05.29.2020 03:12 mg/kg	05.28.2020 17:01 05.29.2020 03:32 RL
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	<0.00402 0.00402	<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:38 05.28.2020 22:19 mg/kg	05.28.2020 17:38 05.28.2020 22:39 RL	05.28.2020 17:38 05.28.2020 22:46 mg/kg	05.28.2020 17:38 05.28.2020 23:07 RL	05.28.2020 17:38 05.28.2020 23:14 mg/kg	05.28.2020 17:38 05.28.2020 23:21 RL
Chloride		218 49.7	119 50.1	149 50.3	115 49.5	159 50.4	181 50.1
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.28.2020 23:11 mg/kg	05.28.2020 17:10 05.29.2020 00:12 RL	05.28.2020 17:10 05.29.2020 00:33 mg/kg	05.28.2020 17:10 05.29.2020 00:53 RL	05.28.2020 17:10 05.29.2020 01:13 mg/kg	05.28.2020 17:10 05.29.2020 01:34 RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.2 50.2	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.2 50.2	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.2 50.2	<49.8 49.8
Total TPH		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.2 50.2	<49.8 49.8

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Page 291 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-007 Bottomhole-74 comp 4'	662898-008 Bottomhole-75 comp 4'	662898-009 Bottomhole-76 comp 4'	662898-010 Bottomhole-77 comp 4'	662898-011 Bottomhole-78 comp 4'	662898-012 Bottomhole-79 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:01 05.29.2020 03:52 mg/kg	05.28.2020 17:01 05.29.2020 04:13 RL	05.28.2020 17:01 05.29.2020 04:33 mg/kg	05.28.2020 17:01 05.29.2020 04:54 RL	05.28.2020 17:01 05.29.2020 05:55 mg/kg	05.28.2020 17:01 05.29.2020 06:15 RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.000201 0.000201	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.000201 0.000201	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.000201 0.000201	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00404 0.00404	<0.000402 0.000402	<0.00398 0.00398	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.000201 0.000201	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.000201 0.000201	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.000201 0.000201	<0.00199 0.00199	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:38 05.28.2020 23:28 mg/kg	05.28.2020 17:38 05.28.2020 23:35 RL	05.28.2020 17:38 05.28.2020 23:42 mg/kg	05.28.2020 17:38 05.28.2020 23:49 RL	05.28.2020 17:41 05.29.2020 00:31 mg/kg	05.28.2020 17:41 05.29.2020 00:52 RL
Chloride		260 49.7	211 49.8	180 50.0	137 49.8	160 49.8	190 50.1
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.29.2020 01:54 mg/kg	05.28.2020 17:10 05.29.2020 02:14 RL	05.28.2020 17:10 05.29.2020 02:34 mg/kg	05.28.2020 17:10 05.29.2020 02:55 RL	05.28.2020 17:10 05.29.2020 03:35 mg/kg	05.28.2020 17:10 05.29.2020 03:55 RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.1 50.1
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.1 50.1
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.3 50.3	<50.1 50.1	<50.1 50.1

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Page 292 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-013 Bottomhole-80 comp 4'	662898-014 Bottomhole-81 comp 4'	662898-015 Bottomhole-82 comp 4'	662898-016 Bottomhole-83 comp 4'	662898-017 Bottomhole-84 comp 4'	662898-018 Bottomhole-85 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:01 05.29.2020 06:36 mg/kg	05.28.2020 17:01 05.29.2020 06:56 RL	05.28.2020 17:01 05.29.2020 07:17 mg/kg	05.28.2020 17:01 05.29.2020 07:37 RL	05.28.2020 17:01 05.29.2020 07:57 mg/kg	05.28.2020 17:01 05.29.2020 08:18 RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198
m,p-Xylenes		<0.00400 0.00400	<0.00396 0.00396	<0.00398 0.00398	<0.00399 0.00399	<0.00403 0.00403	<0.00395 0.00395
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:41 05.29.2020 00:59 mg/kg	05.28.2020 17:41 05.29.2020 01:06 RL	05.28.2020 17:41 05.29.2020 01:13 mg/kg	05.28.2020 17:41 05.29.2020 01:34 RL	05.28.2020 17:41 05.29.2020 01:41 mg/kg	05.28.2020 17:41 05.29.2020 01:48 RL
Chloride		143 50.1	216 50.2	230 50.4	39.4 10.0	179 49.9	119 49.7
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.29.2020 04:16 mg/kg	05.28.2020 17:10 05.29.2020 04:36 RL	05.28.2020 17:10 05.29.2020 04:56 mg/kg	05.28.2020 17:10 05.29.2020 05:17 RL	05.28.2020 17:10 05.29.2020 05:37 mg/kg	05.28.2020 17:10 05.29.2020 05:57 RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.0 50.0	<49.8 49.8
Total TPH		<50.2 50.2	<50.0 50.0	<50.0 50.0	<50.2 50.2	<50.0 50.0	<49.8 49.8

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-019 Bottomhole-86 comp 4'	662898-020 Bottomhole-87 comp 4'	662898-021 Bottomhole-88 comp 4'	662898-022 Bottomhole-89 comp 4'	662898-023 Bottomhole-90 comp 4'	662898-024 Bottomhole-91 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:01 05.29.2020 08:38 mg/kg	05.28.2020 17:01 05.29.2020 08:59 RL	05.28.2020 17:03 05.29.2020 12:43 mg/kg	05.28.2020 17:03 05.29.2020 13:04 RL	05.28.2020 17:03 05.29.2020 13:24 mg/kg	05.28.2020 17:03 05.29.2020 13:45 RL
Benzene	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199
Toluene	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes	<0.00402 0.00402	<0.00402 0.00402	<0.00396 0.00396	<0.00398 0.00398	<0.00402 0.00402	<0.00398 0.00398	<0.00402 0.00402
o-Xylene	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199
Total BTEX	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:41 05.29.2020 01:55 mg/kg	05.28.2020 17:41 05.29.2020 02:02 RL	05.28.2020 17:41 05.29.2020 02:09 mg/kg	05.28.2020 17:41 05.29.2020 02:30 RL	05.28.2020 17:41 05.29.2020 02:37 mg/kg	05.28.2020 17:41 05.29.2020 02:58 RL
Chloride	165 49.9	195 49.6	194 49.7	126 49.9	181 49.6	144 50.4	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.29.2020 06:18 mg/kg	05.28.2020 17:10 05.29.2020 06:38 RL	05.28.2020 17:10 05.28.2020 23:11 mg/kg	05.28.2020 17:10 05.29.2020 00:12 RL	05.28.2020 17:10 05.29.2020 00:33 mg/kg	05.28.2020 17:10 05.29.2020 00:53 RL
Gasoline Range Hydrocarbons (GRO)	<50.2 50.2	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.8 49.8	
Diesel Range Organics (DRO)	<50.2 50.2	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.8 49.8	
Motor Oil Range Hydrocarbons (MRO)	<50.2 50.2	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.8 49.8	
Total TPH	<50.2 50.2	<49.9 49.9	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.8 49.8	

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-025 Bottomhole-92 comp 4'	662898-026 Bottomhole-93 comp 4'	662898-027 Bottomhole-94 comp 4'	662898-028 Bottomhole-95 comp 4'	662898-029 Bottomhole-96 comp 4'	662898-030 Bottomhole-105 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:03 05.29.2020 14:05 mg/kg RL	05.28.2020 17:03 05.29.2020 14:26 mg/kg RL	05.28.2020 17:03 05.29.2020 14:46 mg/kg RL	05.28.2020 17:03 05.29.2020 15:07 mg/kg RL	05.28.2020 17:03 05.29.2020 15:27 mg/kg RL	05.28.2020 17:03 05.29.2020 15:47 mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202
m,p-Xylenes		<0.00403 0.00403	<0.00399 0.00399	<0.00397 0.00397	<0.00402 0.00402	<0.00404 0.00404	<0.00403 0.00403
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:41 05.29.2020 03:04 mg/kg RL	05.28.2020 17:41 05.29.2020 03:11 mg/kg RL	05.28.2020 17:41 05.29.2020 03:18 mg/kg RL	05.28.2020 17:41 05.29.2020 03:25 mg/kg RL	05.28.2020 17:41 05.29.2020 03:32 mg/kg RL	05.28.2020 17:41 05.29.2020 03:39 mg/kg RL
Chloride		157 50.4	43.3 9.98	166 50.1	253 50.2	45.0 10.0	152 49.9
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.29.2020 01:13 mg/kg RL	05.28.2020 17:10 05.29.2020 01:34 mg/kg RL	05.28.2020 17:10 05.29.2020 01:54 mg/kg RL	05.28.2020 17:10 05.29.2020 02:14 mg/kg RL	05.28.2020 17:10 05.29.2020 02:34 mg/kg RL	05.28.2020 17:10 05.29.2020 02:55 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.0 50.0
Diesel Range Organics (DRO)		<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.0 50.0
Total TPH		<50.1 50.1	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.2 50.2	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-031 Bottomhole-106 comp 4'	662898-032 Bottomhole-107 comp 4'	662898-033 Bottomhole-108 comp 4'	662898-034 Bottomhole-109 comp 4'	662898-035 Bottomhole-110 comp 4'	662898-036 Bottomhole-111 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:03 05.29.2020 16:49 mg/kg	05.28.2020 17:03 05.29.2020 17:09 RL	05.28.2020 17:03 05.29.2020 17:30 mg/kg	05.28.2020 17:03 05.29.2020 17:50 RL	05.28.2020 17:03 05.29.2020 18:11 mg/kg	05.28.2020 17:03 05.29.2020 18:31 RL
Benzene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	<0.00398 0.00398	<0.00404 0.00404	<0.00402 0.00402	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:43 05.29.2020 04:21 mg/kg	05.28.2020 17:43 05.29.2020 04:42 RL	05.28.2020 17:43 05.29.2020 04:49 mg/kg	05.28.2020 17:43 05.29.2020 04:56 RL	05.28.2020 17:43 05.29.2020 05:03 mg/kg	05.28.2020 17:43 05.29.2020 05:24 RL
Chloride		39.9 10.0	57.6 49.4	131 49.6	250 50.4	169 50.4	248 50.1
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.29.2020 03:35 mg/kg	05.28.2020 17:10 05.29.2020 03:55 RL	05.28.2020 17:10 05.29.2020 04:16 mg/kg	05.28.2020 17:10 05.29.2020 04:36 RL	05.28.2020 17:10 05.29.2020 04:56 mg/kg	05.28.2020 17:10 05.29.2020 05:17 RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.2 50.2	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.2 50.2	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.2 50.2	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.9 49.9
Total TPH		<50.0 50.0	<50.2 50.2	<49.9 49.9	<49.8 49.8	<50.2 50.2	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-037 Bottomhole-112 comp 4'	662898-038 Bottomhole-120 comp 4'	662898-039 Bottomhole-121 comp 4'	662898-040 Bottomhole-122 comp 4'	662898-041 Bottomhole-123 comp 4'	662898-042 Bottomhole-124 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.28.2020 17:03 05.29.2020 18:52 mg/kg RL	05.28.2020 17:03 05.29.2020 19:12 mg/kg RL	05.28.2020 17:03 05.29.2020 19:32 mg/kg RL	05.28.2020 17:03 05.29.2020 19:53 mg/kg RL	05.29.2020 11:10 05.29.2020 22:57 mg/kg RL	05.29.2020 11:10 05.29.2020 23:17 mg/kg RL
Benzene	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	
Toluene	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	
Ethylbenzene	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	
m,p-Xylenes	<0.00402 0.00402	<0.00402 0.00402	<0.00398 0.00398	<0.00396 0.00396	<0.00401 0.00401	<0.00396 0.00396	
o-Xylene	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	
Total Xylenes	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	
Total BTEX	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198	
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:43 05.29.2020 05:31 mg/kg RL	05.28.2020 17:43 05.29.2020 05:38 mg/kg RL	05.28.2020 17:43 05.29.2020 05:45 mg/kg RL	05.28.2020 17:43 05.29.2020 05:52 mg/kg RL	05.28.2020 17:43 05.29.2020 05:59 mg/kg RL	05.28.2020 17:43 05.29.2020 06:20 mg/kg RL
Chloride	234 49.6	237 49.8	154 49.8	233 9.88	180 49.8	169 49.8	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.28.2020 17:10 05.29.2020 05:37 mg/kg RL	05.28.2020 17:10 05.29.2020 05:57 mg/kg RL	05.28.2020 17:10 05.29.2020 06:18 mg/kg RL	05.28.2020 17:10 05.29.2020 06:38 mg/kg RL	05.29.2020 11:16 05.29.2020 16:48 mg/kg RL	05.29.2020 11:16 05.29.2020 17:50 mg/kg RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.1 50.1	<49.8 49.8	<50.3 50.3	<50.2 50.2	<49.9 49.9	
Diesel Range Organics (DRO)	<50.0 50.0	<50.1 50.1	<49.8 49.8	<50.3 50.3	<50.2 50.2	<49.9 49.9	
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.1 50.1	<49.8 49.8	<50.3 50.3	<50.2 50.2	<49.9 49.9	
Total TPH	<50.0 50.0	<50.1 50.1	<49.8 49.8	<50.3 50.3	<50.2 50.2	<49.9 49.9	

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-043 Bottomhole-125 comp 4'	662898-044 Bottomhole-126 comp 4'	662898-045 Bottomhole-135 comp 4'	662898-046 Bottomhole-136 comp 4'	662898-047 Bottomhole-137 comp 4'	662898-048 Bottomhole-138 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:10 05.29.2020 23:37 mg/kg RL	05.29.2020 11:10 05.29.2020 23:58 mg/kg RL	05.29.2020 11:10 05.30.2020 00:18 mg/kg RL	05.29.2020 11:10 05.30.2020 00:39 mg/kg RL	05.29.2020 11:10 05.30.2020 00:59 mg/kg RL	05.29.2020 11:10 05.30.2020 01:19 mg/kg RL
Benzene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Toluene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Ethylbenzene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
m,p-Xylenes		<0.00396 0.00396	<0.00397 0.00397	<0.00403 0.00403	<0.00396 0.00396	<0.00402 0.00402	<0.00397 0.00397
o-Xylene		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Total Xylenes		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Total BTEX		<0.00198 0.00198	<0.00198 0.00198	<0.00202 0.00202	<0.00198 0.00198	<0.00201 0.00201	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:43 05.29.2020 06:27 mg/kg RL	05.28.2020 17:43 05.29.2020 06:47 mg/kg RL	05.28.2020 17:43 05.29.2020 06:54 mg/kg RL	05.28.2020 17:43 05.29.2020 07:01 mg/kg RL	05.28.2020 17:43 05.29.2020 07:08 mg/kg RL	05.28.2020 17:43 05.29.2020 07:15 mg/kg RL
Chloride		197 49.4	200 49.6	35.7 10.1	39.8 10.4	112 50.1	156 50.1
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:16 05.29.2020 18:11 mg/kg RL	05.29.2020 11:16 05.29.2020 18:31 mg/kg RL	05.29.2020 11:16 05.29.2020 18:52 mg/kg RL	05.29.2020 11:16 05.29.2020 19:13 mg/kg RL	05.29.2020 11:16 05.29.2020 19:33 mg/kg RL	05.29.2020 11:16 05.29.2020 19:54 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.2 50.2	<49.8 49.8	<50.2 50.2	<49.8 49.8	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.2 50.2	<49.8 49.8	<50.2 50.2	<49.8 49.8	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.2 50.2	<49.8 49.8	<50.2 50.2	<49.8 49.8	<49.9 49.9
Total TPH		<50.0 50.0	<50.2 50.2	<49.8 49.8	<50.2 50.2	<49.8 49.8	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Page 298 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-049 Bottomhole-139 comp 4'	662898-050 Bottomhole-140 comp 4'	662898-051 Bottomhole-141 comp 4'	662898-052 Bottomhole-150 comp 4'	662898-053 Bottomhole-151 comp 4'	662898-054 Bottomhole-152 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:10 05.30.2020 01:40 mg/kg RL	05.29.2020 11:10 05.30.2020 02:00 mg/kg RL	05.29.2020 11:10 05.30.2020 03:01 mg/kg RL	05.29.2020 11:10 05.30.2020 03:22 mg/kg RL	05.29.2020 11:10 05.30.2020 03:42 mg/kg RL	05.29.2020 11:10 05.30.2020 04:03 mg/kg RL
Benzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202
Toluene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202
Ethylbenzene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402	<0.00400 0.00400	<0.00400 0.00400	<0.00397 0.00397	<0.00403 0.00403
o-Xylene		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202
Total Xylenes		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202
Total BTEX		<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00202 0.00202
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.28.2020 17:43 05.29.2020 07:22 mg/kg RL	05.28.2020 17:43 05.29.2020 07:29 mg/kg RL	05.29.2020 08:05 05.29.2020 10:27 mg/kg RL	05.29.2020 08:05 05.29.2020 10:48 mg/kg RL	05.29.2020 08:05 05.29.2020 10:55 mg/kg RL	05.29.2020 08:05 05.29.2020 11:02 mg/kg RL
Chloride		114 49.6	121 49.9	112 49.8	97.3 50.4	175 50.4	131 50.3
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:16 05.29.2020 20:14 mg/kg RL	05.29.2020 11:16 05.29.2020 20:35 mg/kg RL	05.29.2020 11:16 05.29.2020 21:16 mg/kg RL	05.29.2020 11:16 05.29.2020 21:36 mg/kg RL	05.29.2020 11:16 05.29.2020 21:56 mg/kg RL	05.29.2020 11:16 05.29.2020 22:17 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.0 50.0
Diesel Range Organics (DRO)		<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.0 50.0
Total TPH		<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-055 Bottomhole-153 comp 4'	662898-056 Bottomhole-154 comp 4'	662898-057 Bottomhole-155 comp 4'	662898-058 Bottomhole-165 comp 4'	662898-059 Bottomhole-166 comp 4'	662898-060 Bottomhole-167 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:10 05.30.2020 04:23 mg/kg RL	05.29.2020 11:10 05.30.2020 04:43 mg/kg RL	05.29.2020 11:10 05.30.2020 05:04 mg/kg RL	05.29.2020 11:10 05.30.2020 05:24 mg/kg RL	05.29.2020 11:10 05.30.2020 05:45 mg/kg RL	05.29.2020 11:10 05.30.2020 06:05 mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00400 0.00400	<0.00403 0.00403	<0.00396 0.00396	<0.00400 0.00400	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.29.2020 08:05 05.29.2020 11:09 mg/kg RL	05.29.2020 08:05 05.29.2020 11:29 mg/kg RL	05.29.2020 08:05 05.29.2020 12:16 mg/kg RL	05.29.2020 08:05 05.29.2020 12:22 mg/kg RL	05.29.2020 08:05 05.29.2020 12:28 mg/kg RL	05.29.2020 08:05 05.29.2020 12:34 mg/kg RL
Chloride		130 50.1	205 49.4	39.0 9.88	36.9 9.96	31.5 9.92	135 49.7
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:16 05.29.2020 22:37 mg/kg RL	05.29.2020 11:16 05.29.2020 22:58 mg/kg RL	05.29.2020 11:16 05.29.2020 23:18 mg/kg RL	05.29.2020 11:16 05.29.2020 23:38 mg/kg RL	05.29.2020 11:16 05.29.2020 23:58 mg/kg RL	05.29.2020 11:16 05.30.2020 00:19 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.0 50.0
Total TPH		<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Page 300 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-061 Bottomhole-168 comp 4'	662898-062 Bottomhole-169 comp 4'	662898-063 Bottomhole-170 comp 4'	662898-064 Bottomhole-180 comp 4'	662898-065 Bottomhole-181 comp 4'	662898-066 Bottomhole-182 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:15 05.30.2020 09:09 mg/kg RL	05.29.2020 11:15 05.30.2020 09:29 mg/kg RL	05.29.2020 11:15 05.30.2020 09:50 mg/kg RL	05.29.2020 11:15 05.30.2020 10:10 mg/kg RL	05.29.2020 11:15 05.30.2020 10:30 mg/kg RL	05.29.2020 11:15 05.30.2020 10:51 mg/kg RL
Benzene		<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene		<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene		<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes		<0.00404 0.00404	<0.00404 0.00404	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398
o-Xylene		<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes		<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX		<0.00202 0.00202	<0.00202 0.00202	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.29.2020 08:05 05.29.2020 13:39 mg/kg RL	05.29.2020 08:05 05.29.2020 13:56 mg/kg RL	05.29.2020 08:05 05.29.2020 14:02 mg/kg RL	05.29.2020 08:05 05.29.2020 14:20 mg/kg RL	05.29.2020 08:05 05.29.2020 14:26 mg/kg RL	05.29.2020 08:05 05.29.2020 14:32 mg/kg RL
Chloride		154 49.7	188 49.8	84.5 49.9	88.4 50.4	145 50.3	146 50.1
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:27 05.29.2020 16:48 mg/kg RL	05.29.2020 11:27 05.29.2020 17:50 mg/kg RL	05.29.2020 11:27 05.29.2020 18:11 mg/kg RL	05.29.2020 11:27 05.29.2020 18:31 mg/kg RL	05.29.2020 11:27 05.29.2020 18:52 mg/kg RL	05.29.2020 11:27 05.29.2020 19:13 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.3 50.3	<50.0 50.0	<50.1 50.1	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	<50.3 50.3	<50.0 50.0	<50.1 50.1	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.3 50.3	<50.0 50.0	<50.1 50.1	<50.0 50.0	<49.9 49.9
Total TPH		<49.8 49.8	<50.3 50.3	<50.0 50.0	<50.1 50.1	<50.0 50.0	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-067 Bottomhole-183 comp 4'	662898-068 Bottomhole-190 comp 4'	662898-069 Bottomhole-191 comp 4'	662898-070 Bottomhole-192 comp 4'	662898-071 Bottomhole-193 comp 4'	662898-072 Bottomhole-194 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:15 05.30.2020 11:11 mg/kg RL	05.29.2020 11:15 05.30.2020 11:32 mg/kg RL	05.29.2020 11:15 05.30.2020 11:52 mg/kg RL	05.29.2020 11:15 05.30.2020 12:12 mg/kg RL	05.29.2020 11:15 05.30.2020 13:14 mg/kg RL	05.29.2020 11:15 05.30.2020 13:34 mg/kg RL
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00404 0.00404	<0.00402 0.00402	<0.00402 0.00402	<0.00402 0.00402	<0.00401 0.00401	<0.00400 0.00400
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.29.2020 08:05 05.29.2020 14:37 mg/kg RL	05.29.2020 08:05 05.29.2020 14:43 mg/kg RL	05.29.2020 08:05 05.29.2020 14:49 mg/kg RL	05.29.2020 08:05 05.29.2020 14:55 mg/kg RL	05.29.2020 15:28 05.29.2020 15:33 mg/kg RL	05.29.2020 15:28 05.29.2020 15:54 mg/kg RL
Chloride		60.9 50.1	107 49.9	133 50.3	113 50.4	101 49.7	103 49.5
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:27 05.29.2020 19:33 mg/kg RL	05.29.2020 11:27 05.29.2020 19:54 mg/kg RL	05.29.2020 11:27 05.29.2020 20:14 mg/kg RL	05.29.2020 11:27 05.29.2020 20:35 mg/kg RL	05.29.2020 11:27 05.29.2020 21:16 mg/kg RL	05.29.2020 11:27 05.29.2020 21:36 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.3 50.3	<49.8 49.8	<49.9 49.9	<49.9 49.9	<50.3 50.3
Diesel Range Organics (DRO)		<49.8 49.8	<50.3 50.3	<49.8 49.8	<49.9 49.9	<49.9 49.9	<50.3 50.3
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.3 50.3	<49.8 49.8	<49.9 49.9	<49.9 49.9	<50.3 50.3
Total TPH		<49.8 49.8	<50.3 50.3	<49.8 49.8	<49.9 49.9	<49.9 49.9	<50.3 50.3

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-073 ESW -12 comp 4'	662898-074 ESW -13 comp 4'	662898-075 ESW -14 comp 4'	662898-076 ESW -15 comp 4'	662898-077 ESW -16 comp 4'	662898-078 SSW-6 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:15 05.30.2020 13:54 mg/kg	05.29.2020 11:15 05.30.2020 14:15 RL	05.29.2020 11:15 05.30.2020 14:35 mg/kg	05.29.2020 11:15 05.30.2020 14:56 RL	05.29.2020 11:15 05.30.2020 15:16 mg/kg	05.29.2020 11:15 05.30.2020 15:37 RL
Benzene	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes	<0.00402 0.00402	<0.00399 0.00399	<0.00403 0.00403	<0.00401 0.00401	<0.00399 0.00399	<0.00399 0.00399	<0.00399 0.00399
o-Xylene	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.29.2020 15:28 05.29.2020 16:01 mg/kg	05.29.2020 15:28 05.29.2020 16:08 RL	05.29.2020 15:28 05.29.2020 16:15 mg/kg	05.29.2020 15:28 05.29.2020 16:36 RL	05.29.2020 15:28 05.29.2020 16:43 mg/kg	05.29.2020 15:28 05.29.2020 16:50 RL
Chloride	146 50.5	112 50.2	123 50.3	122 50.5	131 49.6	132 50.2	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:27 05.29.2020 21:56 mg/kg	05.29.2020 11:27 05.29.2020 22:17 RL	05.29.2020 11:27 05.29.2020 22:37 mg/kg	05.29.2020 11:27 05.29.2020 22:58 RL	05.29.2020 11:27 05.29.2020 23:18 mg/kg	05.29.2020 11:27 05.29.2020 23:38 RL
Gasoline Range Hydrocarbons (GRO)	<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	
Diesel Range Organics (DRO)	<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	
Motor Oil Range Hydrocarbons (MRO)	<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	
Total TPH	<50.2 50.2	<50.1 50.1	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.8 49.8	

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662898

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1 H

Project Id: 212C-MD-02190

Date Received in Lab: Thu 05.28.2020 16:30

Contact: Brittany Long

Report Date: 06.03.2020 10:01

Project Location: Eddy County, NM

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662898-079 SSW-7 comp 4' 4- ft SOIL 05.27.2020 00:00					
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.29.2020 11:15 05.30.2020 15:57 mg/kg RL					
Benzene		<0.00199 0.00199					
Toluene		<0.00199 0.00199					
Ethylbenzene		<0.00199 0.00199					
m,p-Xylenes		<0.00398 0.00398					
o-Xylene		<0.00199 0.00199					
Total Xylenes		<0.00199 0.00199					
Total BTEX		<0.00199 0.00199					
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	05.29.2020 15:28 05.29.2020 16:57 mg/kg RL					
Chloride		182 50.3					
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 11:27 05.29.2020 23:58 mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3					
Diesel Range Organics (DRO)		<50.3 50.3					
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3					
Total TPH		<50.3 50.3					

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

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

Jessica Kramer
Project Manager



Analytical Report 662898

for

Tetra Tech- Midland

Project Manager: Brittany Long

Bodacious BSM Federal #1 H

212C-MD-02190

06.03.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.03.2020

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **662898**

Bodacious BSM Federal #1 H

Project Address: Eddy County, NM

Brittany Long:

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) 662898. 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. 662898 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 Manager

A Small Business and Minority Company

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



Sample Cross Reference 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottomhole-68 comp 4'	S	05.27.2020 00:00	4 ft	662898-001
Bottomhole-69 comp 4'	S	05.27.2020 00:00	4 ft	662898-002
Bottomhole-70 comp 4'	S	05.27.2020 00:00	4 ft	662898-003
Bottomhole-71 comp 4'	S	05.27.2020 00:00	4 ft	662898-004
Bottomhole-72 comp 4'	S	05.27.2020 00:00	4 ft	662898-005
Bottomhole-73 comp 4'	S	05.27.2020 00:00	4 ft	662898-006
Bottomhole-74 comp 4'	S	05.27.2020 00:00	4 ft	662898-007
Bottomhole-75 comp 4'	S	05.27.2020 00:00	4 ft	662898-008
Bottomhole-76 comp 4'	S	05.27.2020 00:00	4 ft	662898-009
Bottomhole-77 comp 4'	S	05.27.2020 00:00	4 ft	662898-010
Bottomhole-78 comp 4'	S	05.27.2020 00:00	4 ft	662898-011
Bottomhole-79 comp 4'	S	05.27.2020 00:00	4 ft	662898-012
Bottomhole-80 comp 4'	S	05.27.2020 00:00	4 ft	662898-013
Bottomhole-81 comp 4'	S	05.27.2020 00:00	4 ft	662898-014
Bottomhole-82 comp 4'	S	05.27.2020 00:00	4 ft	662898-015
Bottomhole-83 comp 4'	S	05.27.2020 00:00	4 ft	662898-016
Bottomhole-84 comp 4'	S	05.27.2020 00:00	4 ft	662898-017
Bottomhole-85 comp 4'	S	05.27.2020 00:00	4 ft	662898-018
Bottomhole-86 comp 4'	S	05.27.2020 00:00	4 ft	662898-019
Bottomhole-87 comp 4'	S	05.27.2020 00:00	4 ft	662898-020
Bottomhole-88 comp 4'	S	05.27.2020 00:00	4 ft	662898-021
Bottomhole-89 comp 4'	S	05.27.2020 00:00	4 ft	662898-022
Bottomhole-90 comp 4'	S	05.27.2020 00:00	4 ft	662898-023
Bottomhole-91 comp 4'	S	05.27.2020 00:00	4 ft	662898-024
Bottomhole-92 comp 4'	S	05.27.2020 00:00	4 ft	662898-025
Bottomhole-93 comp 4'	S	05.27.2020 00:00	4 ft	662898-026
Bottomhole-94 comp 4'	S	05.27.2020 00:00	4 ft	662898-027
Bottomhole-95 comp 4'	S	05.27.2020 00:00	4 ft	662898-028
Bottomhole-96 comp 4'	S	05.27.2020 00:00	4 ft	662898-029
Bottomhole-105 comp 4'	S	05.27.2020 00:00	4 ft	662898-030
Bottomhole-106 comp 4'	S	05.27.2020 00:00	4 ft	662898-031
Bottomhole-107 comp 4'	S	05.27.2020 00:00	4 ft	662898-032
Bottomhole-108 comp 4'	S	05.27.2020 00:00	4 ft	662898-033
Bottomhole-109 comp 4'	S	05.27.2020 00:00	4 ft	662898-034
Bottomhole-110 comp 4'	S	05.27.2020 00:00	4 ft	662898-035
Bottomhole-111 comp 4'	S	05.27.2020 00:00	4 ft	662898-036
Bottomhole-112 comp 4'	S	05.27.2020 00:00	4 ft	662898-037
Bottomhole-120 comp 4'	S	05.27.2020 00:00	4 ft	662898-038
Bottomhole-121 comp 4'	S	05.27.2020 00:00	4 ft	662898-039
Bottomhole-122 comp 4'	S	05.27.2020 00:00	4 ft	662898-040
Bottomhole-123 comp 4'	S	05.27.2020 00:00	4 ft	662898-041
Bottomhole-124 comp 4'	S	05.27.2020 00:00	4 ft	662898-042
Bottomhole-125 comp 4'	S	05.27.2020 00:00	4 ft	662898-043



Sample Cross Reference 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Bottomhole-126 comp 4'	S	05.27.2020 00:00	4 ft	662898-044
Bottomhole-135 comp 4'	S	05.27.2020 00:00	4 ft	662898-045
Bottomhole-136 comp 4'	S	05.27.2020 00:00	4 ft	662898-046
Bottomhole-137 comp 4'	S	05.27.2020 00:00	4 ft	662898-047
Bottomhole-138 comp 4'	S	05.27.2020 00:00	4 ft	662898-048
Bottomhole-139 comp 4'	S	05.27.2020 00:00	4 ft	662898-049
Bottomhole-140 comp 4'	S	05.27.2020 00:00	4 ft	662898-050
Bottomhole-141 comp 4'	S	05.27.2020 00:00	4 ft	662898-051
Bottomhole-150 comp 4'	S	05.27.2020 00:00	4 ft	662898-052
Bottomhole-151 comp 4'	S	05.27.2020 00:00	4 ft	662898-053
Bottomhole-152 comp 4'	S	05.27.2020 00:00	4 ft	662898-054
Bottomhole-153 comp 4'	S	05.27.2020 00:00	4 ft	662898-055
Bottomhole-154 comp 4'	S	05.27.2020 00:00	4 ft	662898-056
Bottomhole-155 comp 4'	S	05.27.2020 00:00	4 ft	662898-057
Bottomhole-165 comp 4'	S	05.27.2020 00:00	4 ft	662898-058
Bottomhole-166 comp 4'	S	05.27.2020 00:00	4 ft	662898-059
Bottomhole-167 comp 4'	S	05.27.2020 00:00	4 ft	662898-060
Bottomhole-168 comp 4'	S	05.27.2020 00:00	4 ft	662898-061
Bottomhole-169 comp 4'	S	05.27.2020 00:00	4 ft	662898-062
Bottomhole-170 comp 4'	S	05.27.2020 00:00	4 ft	662898-063
Bottomhole-180 comp 4'	S	05.27.2020 00:00	4 ft	662898-064
Bottomhole-181 comp 4'	S	05.27.2020 00:00	4 ft	662898-065
Bottomhole-182 comp 4'	S	05.27.2020 00:00	4 ft	662898-066
Bottomhole-183 comp 4'	S	05.27.2020 00:00	4 ft	662898-067
Bottomhole-190 comp 4'	S	05.27.2020 00:00	4 ft	662898-068
Bottomhole-191 comp 4'	S	05.27.2020 00:00	4 ft	662898-069
Bottomhole-192 comp 4'	S	05.27.2020 00:00	4 ft	662898-070
Bottomhole-193 comp 4'	S	05.27.2020 00:00	4 ft	662898-071
Bottomhole-194 comp 4'	S	05.27.2020 00:00	4 ft	662898-072
ESW -12 comp 4'	S	05.27.2020 00:00	4 ft	662898-073
ESW -13 comp 4'	S	05.27.2020 00:00	4 ft	662898-074
ESW -14 comp 4'	S	05.27.2020 00:00	4 ft	662898-075
ESW -15 comp 4'	S	05.27.2020 00:00	4 ft	662898-076
ESW -16 comp 4'	S	05.27.2020 00:00	4 ft	662898-077
SSW-6 comp 4'	S	05.27.2020 00:00	4 ft	662898-078
SSW-7 comp 4'	S	05.27.2020 00:00	4 ft	662898-079



CASE NARRATIVE

Client Name: Tetra Tech- Midland
Project Name: Bodacious BSM Federal #1 H

Project ID: 212C-MD-02190
Work Order Number(s): 662898

Report Date: 06.03.2020
Date Received: 05.28.2020

Sample receipt non conformances and comments:

V1.001 Revision (client email) Corrected sample from SSW6 to SSW7 JK

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-68 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-001 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	218	49.7	mg/kg	05.28.2020 22:19		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.28.2020 23:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.28.2020 23:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.28.2020 23:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.28.2020 23:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	93	%	70-135	05.28.2020 23:11		
o-Terphenyl	84-15-1	84	%	70-135	05.28.2020 23:11		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-68 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-001

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 01:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 01:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 01:50	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.29.2020 01:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 01:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 01:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 01:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	05.29.2020 01:50		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 01:50		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-69 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-002 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	119	50.1	mg/kg	05.28.2020 22:39		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 00:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 00:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 00:12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 00:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	83	%	70-135	05.29.2020 00:12		
o-Terphenyl	84-15-1	77	%	70-135	05.29.2020 00:12		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-69 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-002

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 02:10	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 02:10	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 02:10	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 02:10	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 02:10	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 02:10	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 02:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 02:10		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 02:10		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-70 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-003	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:38	Basis: Wet Weight
Seq Number: 3127354		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	149	50.3	mg/kg	05.28.2020 22:46		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127325		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 00:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 00:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 00:33	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 00:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	05.29.2020 00:33	
o-Terphenyl	84-15-1	77	%	70-135	05.29.2020 00:33	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-70 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-003

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 02:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 02:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 02:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 02:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 02:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 02:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 02:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 02:31		
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 02:31		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-71 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-004 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	115	49.5	mg/kg	05.28.2020 23:07		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 00:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 00:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 00:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 00:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	78	%	70-135	05.29.2020 00:53		
o-Terphenyl	84-15-1	77	%	70-135	05.29.2020 00:53		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-71 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-004

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 02:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 02:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 02:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 02:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 02:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 02:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 02:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.29.2020 02:51	
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.29.2020 02:51	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-72 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-005 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	159	50.4	mg/kg	05.28.2020 23:14		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 01:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 01:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 01:13	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 01:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	05.29.2020 01:13	
o-Terphenyl	84-15-1	72	%	70-135	05.29.2020 01:13	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-72 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-005

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 03:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 03:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 03:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 03:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 03:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 03:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 03:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 03:12		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 03:12		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-73 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-006 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	50.1	mg/kg	05.28.2020 23:21		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 01:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 01:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 01:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 01:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	83	%	70-135	05.29.2020 01:34		
o-Terphenyl	84-15-1	76	%	70-135	05.29.2020 01:34		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-73 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-006

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 03:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 03:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 03:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.29.2020 03:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 03:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 03:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 03:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.29.2020 03:32	
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 03:32	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-74 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-007 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	260	49.7	mg/kg	05.28.2020 23:28		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	80	%	70-135	05.29.2020 01:54		
o-Terphenyl	84-15-1	72	%	70-135	05.29.2020 01:54		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-74 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-007

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 03:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 03:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 03:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 03:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 03:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 03:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 03:52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 03:52	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.29.2020 03:52	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-75 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-008	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.28.2020 17:38	Basis: Wet Weight
Seq Number: 3127354		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	211	49.8	mg/kg	05.28.2020 23:35		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127325		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	05.29.2020 02:14	
o-Terphenyl	84-15-1	74	%	70-135	05.29.2020 02:14	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-75 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-008

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 04:13	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 04:13	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 04:13	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 04:13	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 04:13	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 04:13	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 04:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 04:13	
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.29.2020 04:13	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-76 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-009 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127354

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	180	50.0	mg/kg	05.28.2020 23:42		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 02:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 02:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 02:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 02:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-135	05.29.2020 02:34		
o-Terphenyl	84-15-1	72	%	70-135	05.29.2020 02:34		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-76 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-009

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 04:33	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 04:33	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 04:33	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.29.2020 04:33	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 04:33	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 04:33	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 04:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 04:33		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 04:33		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-77 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-010	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.28.2020 17:38	Basis: Wet Weight
Seq Number: 3127354		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	137	49.8	mg/kg	05.28.2020 23:49		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127325		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	05.29.2020 02:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	05.29.2020 02:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	05.29.2020 02:55	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	05.29.2020 02:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	05.29.2020 02:55	
o-Terphenyl	84-15-1	71	%	70-135	05.29.2020 02:55	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-77 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-010

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0000201	0.0000201	mg/kg	05.29.2020 04:54	U	1
Toluene	108-88-3	<0.0000201	0.0000201	mg/kg	05.29.2020 04:54	U	1
Ethylbenzene	100-41-4	<0.0000201	0.0000201	mg/kg	05.29.2020 04:54	U	1
m,p-Xylenes	179601-23-1	<0.0000402	0.0000402	mg/kg	05.29.2020 04:54	U	1
o-Xylene	95-47-6	<0.0000201	0.0000201	mg/kg	05.29.2020 04:54	U	1
Total Xylenes	1330-20-7	<0.0000201	0.0000201	mg/kg	05.29.2020 04:54	U	1
Total BTEX		<0.0000201	0.0000201	mg/kg	05.29.2020 04:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 04:54		
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.29.2020 04:54		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-78 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-011 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	49.8	mg/kg	05.29.2020 00:31		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 03:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 03:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 03:35	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 03:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-135	05.29.2020 03:35		
o-Terphenyl	84-15-1	74	%	70-135	05.29.2020 03:35		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-78 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-011

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 05:55	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 05:55	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 05:55	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 05:55	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 05:55	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 05:55	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 05:55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 05:55	
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.29.2020 05:55	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-79 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-012	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:41	Basis: Wet Weight
Seq Number: 3127355		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	190	50.1	mg/kg	05.29.2020 00:52		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127325		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 03:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 03:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 03:55	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 03:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	81	%	70-135	05.29.2020 03:55		
o-Terphenyl	84-15-1	73	%	70-135	05.29.2020 03:55		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-79 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-012	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:01	Basis: Wet Weight
Seq Number: 3127349		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 06:15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 06:15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 06:15	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.29.2020 06:15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 06:15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 06:15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 06:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 06:15		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 06:15		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-80 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-013	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:41	Basis: Wet Weight
Seq Number: 3127355		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	143	50.1	mg/kg	05.29.2020 00:59		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P
Tech: DTH	% Moisture:
Analyst: DTH	Date Prep: 05.28.2020 17:10
Seq Number: 3127325	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 04:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 04:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 04:16	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 04:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	05.29.2020 04:16	
o-Terphenyl	84-15-1	72	%	70-135	05.29.2020 04:16	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-80 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-013

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 06:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 06:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 06:36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.29.2020 06:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 06:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 06:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 06:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 06:36		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 06:36		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-81 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-014	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:41	Basis: Wet Weight
Seq Number: 3127355		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	216	50.2	mg/kg	05.29.2020 01:06		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127325		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 04:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 04:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 04:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 04:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	05.29.2020 04:36	
o-Terphenyl	84-15-1	73	%	70-135	05.29.2020 04:36	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-81 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-014

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 06:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 06:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 06:56	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 06:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 06:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 06:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 06:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.29.2020 06:56		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.29.2020 06:56		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-82 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-015	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:41	Basis: Wet Weight
Seq Number: 3127355		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	230	50.4	mg/kg	05.29.2020 01:13		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P
Tech: DTH	% Moisture:
Analyst: DTH	Date Prep: 05.28.2020 17:10
Seq Number: 3127325	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 04:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 04:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 04:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 04:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	05.29.2020 04:56	
o-Terphenyl	84-15-1	75	%	70-135	05.29.2020 04:56	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-82 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-015

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 07:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 07:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 07:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 07:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 07:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 07:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 07:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.29.2020 07:17	
4-Bromofluorobenzene		460-00-4	98	%	70-130	05.29.2020 07:17	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-83 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-016 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.4	10.0	mg/kg	05.29.2020 12:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 05:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 05:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 05:17	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 05:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	05.29.2020 05:17	
o-Terphenyl	84-15-1	70	%	70-135	05.29.2020 05:17	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-83 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-016

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 07:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 07:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 07:37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.29.2020 07:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 07:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 07:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 07:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 07:37	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.29.2020 07:37	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-84 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-017 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	179	49.9	mg/kg	05.29.2020 01:41		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	05.29.2020 05:37	
o-Terphenyl	84-15-1	79	%	70-135	05.29.2020 05:37	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-84 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-017

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 07:57	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 07:57	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 07:57	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.29.2020 07:57	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 07:57	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 07:57	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 07:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 07:57		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 07:57		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-85 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-018 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	119	49.7	mg/kg	05.29.2020 01:48		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 05:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 05:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 05:57	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 05:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	05.29.2020 05:57	
o-Terphenyl	84-15-1	78	%	70-135	05.29.2020 05:57	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-85 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-018

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 08:18	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 08:18	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 08:18	U	1
m,p-Xylenes	179601-23-1	<0.00395	0.00395	mg/kg	05.29.2020 08:18	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 08:18	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 08:18	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 08:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.29.2020 08:18		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.29.2020 08:18		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-86 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-019 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	165	49.9	mg/kg	05.29.2020 01:55		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 06:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 06:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 06:18	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 06:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	80	%	70-135	05.29.2020 06:18		
o-Terphenyl	84-15-1	81	%	70-135	05.29.2020 06:18		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-86 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-019

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 08:38	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 08:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 08:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 08:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 08:38	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 08:38	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 08:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.29.2020 08:38		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 08:38		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-87 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-020 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	195	49.6	mg/kg	05.29.2020 02:02		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127325

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 06:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 06:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 06:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 06:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	80	%	70-135	05.29.2020 06:38		
o-Terphenyl	84-15-1	81	%	70-135	05.29.2020 06:38		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-87 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-020

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:01

Basis: Wet Weight

Seq Number: 3127349

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 08:59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 08:59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 08:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 08:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 08:59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 08:59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 08:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.29.2020 08:59	
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.29.2020 08:59	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-88 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-021 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	194	49.7	mg/kg	05.29.2020 02:09		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.28.2020 23:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.28.2020 23:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.28.2020 23:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.28.2020 23:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	05.28.2020 23:11		
o-Terphenyl	84-15-1	94	%	70-135	05.28.2020 23:11		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-88 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-021

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 12:43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 12:43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 12:43	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 12:43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 12:43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 12:43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 12:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.29.2020 12:43		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.29.2020 12:43		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-89 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-022 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	126	49.9	mg/kg	05.29.2020 02:30		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 00:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 00:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 00:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 00:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 00:12	
o-Terphenyl	84-15-1	94	%	70-135	05.29.2020 00:12	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-89 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-022

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 13:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 13:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 13:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 13:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 13:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 13:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 13:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 13:04		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 13:04		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-90 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-023 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	49.6	mg/kg	05.29.2020 02:37		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 00:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 00:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 00:33	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 00:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	05.29.2020 00:33	
o-Terphenyl	84-15-1	104	%	70-135	05.29.2020 00:33	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-90 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-023

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 13:24	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 13:24	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 13:24	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 13:24	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 13:24	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 13:24	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 13:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.29.2020 13:24	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.29.2020 13:24	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-91 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-024 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	144	50.4	mg/kg	05.29.2020 02:58		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 00:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 00:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 00:53	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 00:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 00:53		
o-Terphenyl	84-15-1	92	%	70-135	05.29.2020 00:53		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-91 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-024

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 13:45	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 13:45	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 13:45	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 13:45	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 13:45	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 13:45	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 13:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.29.2020 13:45		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.29.2020 13:45		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-92 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-025 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	157	50.4	mg/kg	05.29.2020 03:04		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 01:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 01:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 01:13	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 01:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 01:13		
o-Terphenyl	84-15-1	94	%	70-135	05.29.2020 01:13		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-92 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-025	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.28.2020 17:03	Basis: Wet Weight
Seq Number: 3127496		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 14:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 14:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 14:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.29.2020 14:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 14:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 14:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 14:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 14:05		
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 14:05		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-93 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-026 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.3	9.98	mg/kg	05.29.2020 12:58		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 01:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 01:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 01:34	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 01:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 01:34		
o-Terphenyl	84-15-1	91	%	70-135	05.29.2020 01:34		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-93 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: **662898-026**

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.28.2020 17:03**

Basis: **Wet Weight**

Seq Number: **3127496**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 14:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 14:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 14:26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.29.2020 14:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 14:26	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 14:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 14:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	05.29.2020 14:26		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.29.2020 14:26		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-94 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-027 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	166	50.1	mg/kg	05.29.2020 03:18		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 01:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	99	%	70-135	05.29.2020 01:54		
o-Terphenyl	84-15-1	105	%	70-135	05.29.2020 01:54		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-94 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-027

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 14:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 14:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 14:46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.29.2020 14:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 14:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 14:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 14:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 14:46		
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.29.2020 14:46		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-95 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-028 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	253	50.2	mg/kg	05.29.2020 03:25		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 02:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	05.29.2020 02:14	
o-Terphenyl	84-15-1	96	%	70-135	05.29.2020 02:14	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-95 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-028

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 15:07	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 15:07	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 15:07	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 15:07	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 15:07	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 15:07	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 15:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	05.29.2020 15:07		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.29.2020 15:07		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-96 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-029 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	45.0	10.0	mg/kg	05.29.2020 13:03		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 02:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 02:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 02:34	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 02:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	05.29.2020 02:34	
o-Terphenyl	84-15-1	94	%	70-135	05.29.2020 02:34	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-96 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-029	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:03	Basis: Wet Weight
Seq Number: 3127496		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 15:27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 15:27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 15:27	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.29.2020 15:27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 15:27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 15:27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 15:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.29.2020 15:27		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 15:27		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-105 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-030 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	152	49.9	mg/kg	05.29.2020 03:39		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 02:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 02:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 02:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 02:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 02:55		
o-Terphenyl	84-15-1	95	%	70-135	05.29.2020 02:55		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-105 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-030

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 15:47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 15:47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 15:47	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.29.2020 15:47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 15:47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 15:47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 15:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 15:47		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.29.2020 15:47		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-106 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-031 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.9	10.0	mg/kg	05.29.2020 04:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 03:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 03:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 03:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 03:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	05.29.2020 03:35		
o-Terphenyl	84-15-1	93	%	70-135	05.29.2020 03:35		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-106 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-031

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 16:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 16:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 16:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 16:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 16:49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 16:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 16:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 16:49		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 16:49		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-107 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-032	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.28.2020 17:43	Basis: Wet Weight
Seq Number: 3127359		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.6	49.4	mg/kg	05.29.2020 04:42		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127332		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 03:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 03:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 03:55	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 03:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	05.29.2020 03:55	
o-Terphenyl	84-15-1	98	%	70-135	05.29.2020 03:55	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-107 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-032

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 17:09	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 17:09	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 17:09	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.29.2020 17:09	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 17:09	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 17:09	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 17:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	05.29.2020 17:09		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.29.2020 17:09		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-108 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-033 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	49.6	mg/kg	05.29.2020 04:49		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 04:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 04:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 04:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 04:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 04:16		
o-Terphenyl	84-15-1	95	%	70-135	05.29.2020 04:16		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-108 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-033

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 17:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 17:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 17:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 17:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 17:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 17:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 17:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.29.2020 17:30	
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.29.2020 17:30	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-109 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-034	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.28.2020 17:43	Basis: Wet Weight
Seq Number: 3127359		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	250	50.4	mg/kg	05.29.2020 04:56		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.28.2020 17:10	Basis: Wet Weight
Seq Number: 3127332		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 04:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 04:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 04:36	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 04:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	05.29.2020 04:36	
o-Terphenyl	84-15-1	95	%	70-135	05.29.2020 04:36	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-109 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-034

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 17:50	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 17:50	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 17:50	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.29.2020 17:50	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 17:50	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 17:50	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 17:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.29.2020 17:50		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 17:50		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-110 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-035 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	169	50.4	mg/kg	05.29.2020 05:03		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 04:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 04:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 04:56	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 04:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	95	%	70-135	05.29.2020 04:56		
o-Terphenyl	84-15-1	97	%	70-135	05.29.2020 04:56		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-110 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-035

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: 05.28.2020 17:03

Basis: **Wet Weight**

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 18:11	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 18:11	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 18:11	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 18:11	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 18:11	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 18:11	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 18:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.29.2020 18:11	
1,4-Difluorobenzene		540-36-3	113	%	70-130	05.29.2020 18:11	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-111 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-036 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	248	50.1	mg/kg	05.29.2020 05:24		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 05:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 05:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 05:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 05:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	05.29.2020 05:17	
o-Terphenyl	84-15-1	98	%	70-135	05.29.2020 05:17	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-111 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-036

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.29.2020 18:31	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.29.2020 18:31	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.29.2020 18:31	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.29.2020 18:31	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.29.2020 18:31	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.29.2020 18:31	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.29.2020 18:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 18:31	
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.29.2020 18:31	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-112 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-037 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	234	49.6	mg/kg	05.29.2020 05:31		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 05:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	05.29.2020 05:37	
o-Terphenyl	84-15-1	96	%	70-135	05.29.2020 05:37	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-112 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-037

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 18:52	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 18:52	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 18:52	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 18:52	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 18:52	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 18:52	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 18:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	05.29.2020 18:52		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 18:52		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-120 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-038 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	237	49.8	mg/kg	05.29.2020 05:38		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 05:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 05:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 05:57	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 05:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	94	%	70-135	05.29.2020 05:57		
o-Terphenyl	84-15-1	102	%	70-135	05.29.2020 05:57		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-120 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-038

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.29.2020 19:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.29.2020 19:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.29.2020 19:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.29.2020 19:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.29.2020 19:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.29.2020 19:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.29.2020 19:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	05.29.2020 19:12		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 19:12		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-121 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-039 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	49.8	mg/kg	05.29.2020 05:45		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 06:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 06:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 06:18	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 06:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 06:18	
o-Terphenyl	84-15-1	98	%	70-135	05.29.2020 06:18	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-121 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-039

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.29.2020 19:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.29.2020 19:32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.29.2020 19:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.29.2020 19:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.29.2020 19:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.29.2020 19:32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.29.2020 19:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.29.2020 19:32		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.29.2020 19:32		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-122 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-040 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	233	9.88	mg/kg	06.02.2020 14:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127332

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	05.29.2020 06:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	05.29.2020 06:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	05.29.2020 06:38	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	05.29.2020 06:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-135	05.29.2020 06:38		
o-Terphenyl	84-15-1	96	%	70-135	05.29.2020 06:38		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-122 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-040

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.28.2020 17:03

Basis: Wet Weight

Seq Number: 3127496

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 19:53	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 19:53	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 19:53	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 19:53	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 19:53	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 19:53	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 19:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 19:53		
4-Bromofluorobenzene	460-00-4	95	%	70-130	05.29.2020 19:53		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-123 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-041 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	180	49.8	mg/kg	05.29.2020 05:59		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 16:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 16:48	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	05.29.2020 16:48	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 16:48	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-123 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-041

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.29.2020 22:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.29.2020 22:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.29.2020 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.29.2020 22:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.29.2020 22:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.29.2020 22:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.29.2020 22:57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	95	%	70-130	05.29.2020 22:57	
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.29.2020 22:57	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-124 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-042 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	169	49.8	mg/kg	05.29.2020 06:20		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 17:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 17:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 17:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 17:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	05.29.2020 17:50	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 17:50	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-124 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-042

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 23:17	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 23:17	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 23:17	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 23:17	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 23:17	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 23:17	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 23:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.29.2020 23:17		
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.29.2020 23:17		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-125 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-043 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	197	49.4	mg/kg	05.29.2020 06:27		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	05.29.2020 18:11	
o-Terphenyl	84-15-1	85	%	70-135	05.29.2020 18:11	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-125 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-043

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 23:37	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 23:37	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 23:37	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.29.2020 23:37	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 23:37	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 23:37	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 23:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.29.2020 23:37	
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.29.2020 23:37	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-126 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-044 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	200	49.6	mg/kg	05.29.2020 06:47		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 18:31	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 18:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	05.29.2020 18:31	
o-Terphenyl	84-15-1	86	%	70-135	05.29.2020 18:31	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-126 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-044

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.29.2020 23:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.29.2020 23:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.29.2020 23:58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.29.2020 23:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.29.2020 23:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.29.2020 23:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.29.2020 23:58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.29.2020 23:58	
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.29.2020 23:58	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-135 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-045 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.7	10.1	mg/kg	05.29.2020 13:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 18:52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 18:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	84	%	70-135	05.29.2020 18:52		
o-Terphenyl	84-15-1	87	%	70-135	05.29.2020 18:52		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-135 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-045

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 00:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 00:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 00:18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 00:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 00:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 00:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 00:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	05.30.2020 00:18		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.30.2020 00:18		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-136 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-046 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.8	10.4	mg/kg	05.29.2020 13:33		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 19:13	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 19:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	05.29.2020 19:13	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 19:13	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-136 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-046

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.30.2020 00:39	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.30.2020 00:39	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.30.2020 00:39	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.30.2020 00:39	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.30.2020 00:39	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.30.2020 00:39	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.30.2020 00:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 00:39		
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.30.2020 00:39		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-137 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-047 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	50.1	mg/kg	05.29.2020 07:08		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	05.29.2020 19:33		
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 19:33		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-137 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-047

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 00:59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 00:59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 00:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 00:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 00:59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 00:59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 00:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	05.30.2020 00:59		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 00:59		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-138 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-048 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	156	50.1	mg/kg	05.29.2020 07:15		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 19:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 19:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 19:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 19:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	88	%	70-135	05.29.2020 19:54		
o-Terphenyl	84-15-1	91	%	70-135	05.29.2020 19:54		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-138 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-048

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.30.2020 01:19	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.30.2020 01:19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.30.2020 01:19	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.30.2020 01:19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.30.2020 01:19	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.30.2020 01:19	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.30.2020 01:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	95	%	70-130	05.30.2020 01:19	
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 01:19	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-139 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-049 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	114	49.6	mg/kg	05.29.2020 07:22		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 20:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 20:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 20:14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 20:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	05.29.2020 20:14	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 20:14	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-139 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-049

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 01:40	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 01:40	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 01:40	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 01:40	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 01:40	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 01:40	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 01:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 01:40		
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.30.2020 01:40		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-140 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-050 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127359

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	121	49.9	mg/kg	05.29.2020 07:29		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 20:35	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 20:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-135	05.29.2020 20:35		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 20:35		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-140 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-050

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 02:00	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 02:00	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 02:00	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 02:00	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 02:00	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 02:00	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 02:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.30.2020 02:00		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 02:00		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-141 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-051 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	49.8	mg/kg	05.29.2020 10:27		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 21:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 21:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 21:16	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 21:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	84	%	70-135	05.29.2020 21:16		
o-Terphenyl	84-15-1	88	%	70-135	05.29.2020 21:16		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-141 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-051

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 03:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 03:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 03:01	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 03:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 03:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 03:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 03:01	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 03:01	
4-Bromofluorobenzene		460-00-4	98	%	70-130	05.30.2020 03:01	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-150 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-052	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.29.2020 08:05	Basis: Wet Weight
Seq Number: 3127506		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.3	50.4	mg/kg	05.29.2020 10:48		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.29.2020 11:16	Basis: Wet Weight
Seq Number: 3127494		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 21:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 21:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 21:36	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 21:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	05.29.2020 21:36	
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 21:36	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-150 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-052

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: 05.29.2020 11:10

Basis: **Wet Weight**

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 03:22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 03:22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 03:22	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 03:22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 03:22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 03:22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 03:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.30.2020 03:22	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.30.2020 03:22	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-151 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-053	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.29.2020 08:05	Basis: Wet Weight
Seq Number: 3127506		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	175	50.4	mg/kg	05.29.2020 10:55		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.29.2020 11:16	Basis: Wet Weight
Seq Number: 3127494		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 21:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 21:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 21:56	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 21:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	05.29.2020 21:56	
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 21:56	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-151 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-053

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.30.2020 03:42	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.30.2020 03:42	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.30.2020 03:42	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.30.2020 03:42	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.30.2020 03:42	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.30.2020 03:42	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.30.2020 03:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.30.2020 03:42	
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.30.2020 03:42	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-152 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-054 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	50.3	mg/kg	05.29.2020 11:02		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 22:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 22:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 22:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 22:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 22:17	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 22:17	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-152 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-054

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 04:03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 04:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 04:03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 04:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 04:03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 04:03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 04:03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.30.2020 04:03	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.30.2020 04:03	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-153 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-055 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	130	50.1	mg/kg	05.29.2020 11:09		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 22:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 22:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 22:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 22:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	05.29.2020 22:37	
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 22:37	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-153 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-055

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 04:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 04:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 04:23	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.30.2020 04:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 04:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 04:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 04:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.30.2020 04:23	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.30.2020 04:23	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-154 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-056 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	205	49.4	mg/kg	05.29.2020 11:29		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 22:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 22:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 22:58	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 22:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	05.29.2020 22:58	
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 22:58	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-154 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-056

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 04:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 04:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 04:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 04:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 04:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 04:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 04:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.30.2020 04:43		
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.30.2020 04:43		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-155 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-057 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.0	9.88	mg/kg	05.29.2020 12:16		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 23:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 23:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 23:18	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 23:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	86	%	70-135	05.29.2020 23:18		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 23:18		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-155 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-057

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 05:04	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 05:04	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 05:04	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 05:04	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 05:04	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 05:04	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 05:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 05:04	
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.30.2020 05:04	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-165 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-058 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	36.9	9.96	mg/kg	05.29.2020 12:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 23:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 23:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 23:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 23:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	89	%	70-135	05.29.2020 23:38		
o-Terphenyl	84-15-1	91	%	70-135	05.29.2020 23:38		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-165 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-058

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.30.2020 05:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.30.2020 05:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.30.2020 05:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.30.2020 05:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.30.2020 05:24	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.30.2020 05:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.30.2020 05:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.30.2020 05:24	
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.30.2020 05:24	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-166 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-059 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	31.5	9.92	mg/kg	05.29.2020 12:28		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 23:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 23:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 23:58	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 23:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	88	%	70-135	05.29.2020 23:58		
o-Terphenyl	84-15-1	91	%	70-135	05.29.2020 23:58		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-166 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-059

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 05:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 05:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 05:45	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 05:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 05:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 05:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 05:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.30.2020 05:45		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 05:45		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-167 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-060	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB	% Moisture:	
Analyst: MAB	Date Prep: 05.29.2020 08:05	Basis: Wet Weight
Seq Number: 3127506		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	135	49.7	mg/kg	05.29.2020 12:34		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P
Tech: DTH	% Moisture:
Analyst: DTH	Date Prep: 05.29.2020 11:16
Seq Number: 3127494	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 00:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 00:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 00:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 00:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	05.30.2020 00:19	
o-Terphenyl	84-15-1	92	%	70-135	05.30.2020 00:19	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-167 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-060

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:10

Basis: Wet Weight

Seq Number: 3127497

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 06:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 06:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 06:05	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.30.2020 06:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 06:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 06:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 06:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.30.2020 06:05		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 06:05		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-168 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-061 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	49.7	mg/kg	05.29.2020 13:39		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 16:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 16:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 16:48	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 16:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	05.29.2020 16:48	
o-Terphenyl	84-15-1	85	%	70-135	05.29.2020 16:48	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-168 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-061

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 09:09	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 09:09	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 09:09	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.30.2020 09:09	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 09:09	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 09:09	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 09:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 09:09		
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.30.2020 09:09		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-169 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-062	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.29.2020 08:05	Basis: Wet Weight
Seq Number: 3127506		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	188	49.8	mg/kg	05.29.2020 13:56		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.29.2020 11:27	Basis: Wet Weight
Seq Number: 3127513		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	05.29.2020 17:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	05.29.2020 17:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	05.29.2020 17:50	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	05.29.2020 17:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 17:50	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 17:50	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-169 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-062

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 09:29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 09:29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 09:29	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.30.2020 09:29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 09:29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 09:29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 09:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.30.2020 09:29		
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.30.2020 09:29		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: Bottomhole-170 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-063	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.29.2020 08:05	Basis: Wet Weight
Seq Number: 3127506		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.5	49.9	mg/kg	05.29.2020 14:02		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.29.2020 11:27	Basis: Wet Weight
Seq Number: 3127513		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 18:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 18:11	
o-Terphenyl	84-15-1	88	%	70-135	05.29.2020 18:11	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-170 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-063

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.30.2020 09:50	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.30.2020 09:50	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.30.2020 09:50	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.30.2020 09:50	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.30.2020 09:50	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.30.2020 09:50	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.30.2020 09:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.30.2020 09:50	
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.30.2020 09:50	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-180 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-064 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.4	50.4	mg/kg	05.29.2020 14:20		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 18:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 18:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 18:31	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 18:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 18:31		
o-Terphenyl	84-15-1	88	%	70-135	05.29.2020 18:31		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-180 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-064

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 10:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 10:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 10:10	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 10:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 10:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 10:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 10:10	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.30.2020 10:10	
4-Bromofluorobenzene		460-00-4	94	%	70-130	05.30.2020 10:10	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-181 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-065 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	145	50.3	mg/kg	05.29.2020 14:26		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 18:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 18:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-135	05.29.2020 18:52		
o-Terphenyl	84-15-1	88	%	70-135	05.29.2020 18:52		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-181 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-065

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.30.2020 10:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.30.2020 10:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.30.2020 10:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.30.2020 10:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.30.2020 10:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.30.2020 10:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.30.2020 10:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.30.2020 10:30	
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.30.2020 10:30	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-182 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-066 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	146	50.1	mg/kg	05.29.2020 14:32		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 19:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 19:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 19:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-135	05.29.2020 19:13		
o-Terphenyl	84-15-1	97	%	70-135	05.29.2020 19:13		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-182 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-066

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.30.2020 10:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.30.2020 10:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.30.2020 10:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.30.2020 10:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.30.2020 10:51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.30.2020 10:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.30.2020 10:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	100	%	70-130	05.30.2020 10:51	
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 10:51	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-183 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-067 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	60.9	50.1	mg/kg	05.29.2020 14:37		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 19:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 19:33		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 19:33		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-183 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-067

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 11:11	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 11:11	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 11:11	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	05.30.2020 11:11	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 11:11	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 11:11	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 11:11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	97	%	70-130	05.30.2020 11:11	
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 11:11	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-190 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-068 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	49.9	mg/kg	05.29.2020 14:43		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	05.29.2020 19:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	05.29.2020 19:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	05.29.2020 19:54	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	05.29.2020 19:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 19:54		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 19:54		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-190 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-068

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 11:32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 11:32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 11:32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 11:32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 11:32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 11:32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 11:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.30.2020 11:32		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 11:32		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-191 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-069 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	133	50.3	mg/kg	05.29.2020 14:49		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 20:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 20:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 20:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 20:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 20:14		
o-Terphenyl	84-15-1	91	%	70-135	05.29.2020 20:14		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-191 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-069

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 11:52	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 11:52	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 11:52	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 11:52	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 11:52	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 11:52	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 11:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 11:52		
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.30.2020 11:52		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-192 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-070 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127506

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	50.4	mg/kg	05.29.2020 14:55		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 20:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 20:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-135	05.29.2020 20:35		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 20:35		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-192 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-070

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 12:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 12:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 12:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 12:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 12:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 12:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 12:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 12:12		
4-Bromofluorobenzene	460-00-4	95	%	70-130	05.30.2020 12:12		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-193 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-071 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	101	49.7	mg/kg	05.29.2020 15:33		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 21:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 21:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 21:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 21:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 21:16		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 21:16		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-193 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-071

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 13:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 13:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 13:14	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.30.2020 13:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 13:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 13:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 13:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.30.2020 13:14		
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.30.2020 13:14		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-194 comp 4'** Matrix: Soil Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-072 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	49.5	mg/kg	05.29.2020 15:54		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	05.29.2020 21:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	05.29.2020 21:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	05.29.2020 21:36	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	05.29.2020 21:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 21:36		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 21:36		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **Bottomhole-194 comp 4'**

Matrix: Soil

Date Received: 05.28.2020 16:30

Lab Sample Id: 662898-072

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.29.2020 11:15

Basis: Wet Weight

Seq Number: 3127499

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 13:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 13:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 13:34	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 13:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 13:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 13:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 13:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	98	%	70-130	05.30.2020 13:34	
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.30.2020 13:34	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -12 comp 4'** Matrix: **Soil** Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-073 Date Collected:05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 05.29.2020 15:28 Basis: **Wet Weight**
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	146	50.5	mg/kg	05.29.2020 16:01		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 05.29.2020 11:27 Basis: **Wet Weight**
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.29.2020 21:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.29.2020 21:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.29.2020 21:56	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.29.2020 21:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	05.29.2020 21:56	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 21:56	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: ESW -12 comp 4'	Matrix: Soil	Date Received:05.28.2020 16:30
Lab Sample Id: 662898-073	Date Collected:05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5035A
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.29.2020 11:15	Basis: Wet Weight
Seq Number: 3127499		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 13:54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 13:54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 13:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 13:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 13:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 13:54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 13:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.30.2020 13:54		
4-Bromofluorobenzene	460-00-4	95	%	70-130	05.30.2020 13:54		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -13 comp 4'** Matrix: **Soil** Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-074 Date Collected:05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 05.29.2020 15:28 Basis: **Wet Weight**
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	50.2	mg/kg	05.29.2020 16:08		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 05.29.2020 11:27 Basis: **Wet Weight**
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.29.2020 22:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.29.2020 22:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.29.2020 22:17	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.29.2020 22:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 22:17	
o-Terphenyl	84-15-1	88	%	70-135	05.29.2020 22:17	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -13 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: **662898-074**

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.29.2020 11:15**

Basis: **Wet Weight**

Seq Number: **3127499**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 14:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 14:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 14:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 14:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 14:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 14:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 14:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.30.2020 14:15		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 14:15		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -14 comp 4'** Matrix: **Soil** Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-075 Date Collected: 05.27.2020 00:00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Basis: Wet Weight
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	123	50.3	mg/kg	05.29.2020 16:15		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Basis: Wet Weight
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 22:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 22:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 22:37	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 22:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	90	%	70-135	05.29.2020 22:37		
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 22:37		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -14 comp 4'**

Matrix: **Soil**

Date Received:05.28.2020 16:30

Lab Sample Id: **662898-075**

Date Collected:05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.29.2020 11:15**

Basis: **Wet Weight**

Seq Number: **3127499**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 14:35	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 14:35	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 14:35	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 14:35	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 14:35	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 14:35	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 14:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.30.2020 14:35	
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.30.2020 14:35	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: ESW -15 comp 4'	Matrix: Soil	Date Received: 05.28.2020 16:30
Lab Sample Id: 662898-076	Date Collected: 05.27.2020 00:00	Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: MAB		% Moisture:
Analyst: MAB	Date Prep: 05.29.2020 15:28	Basis: Wet Weight
Seq Number: 3127508		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	122	50.5	mg/kg	05.29.2020 16:36		5

Analytical Method: TPH By SW8015 Mod	Prep Method: SW8015P	
Tech: DTH	% Moisture:	
Analyst: DTH	Date Prep: 05.29.2020 11:27	Basis: Wet Weight
Seq Number: 3127513		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 22:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 22:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 22:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 22:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	05.29.2020 22:58	
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 22:58	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -15 comp 4'**

Matrix: **Soil**

Date Received:05.28.2020 16:30

Lab Sample Id: **662898-076**

Date Collected:05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.29.2020 11:15**

Basis: **Wet Weight**

Seq Number: **3127499**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 14:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 14:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 14:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.30.2020 14:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 14:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 14:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 14:56	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 14:56	
4-Bromofluorobenzene		460-00-4	96	%	70-130	05.30.2020 14:56	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -16 comp 4'** Matrix: **Soil** Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-077 Date Collected:05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 05.29.2020 15:28 Basis: **Wet Weight**
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	131	49.6	mg/kg	05.29.2020 16:43		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 05.29.2020 11:27 Basis: **Wet Weight**
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 23:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 23:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 23:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 23:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	05.29.2020 23:18	
o-Terphenyl	84-15-1	89	%	70-135	05.29.2020 23:18	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **ESW -16 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: **662898-077**

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.29.2020 11:15**

Basis: **Wet Weight**

Seq Number: **3127499**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 15:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 15:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 15:16	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 15:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 15:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 15:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 15:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.30.2020 15:16		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 15:16		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **SSW-6 comp 4'** Matrix: **Soil** Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-078 Date Collected:05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 05.29.2020 15:28 Basis: **Wet Weight**
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	132	50.2	mg/kg	05.29.2020 16:50		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 05.29.2020 11:27 Basis: **Wet Weight**
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.29.2020 23:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.29.2020 23:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.29.2020 23:38	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.29.2020 23:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	05.29.2020 23:38	
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 23:38	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **SSW-6 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: **662898-078**

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.29.2020 11:15**

Basis: **Wet Weight**

Seq Number: **3127499**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 15:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 15:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 15:37	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 15:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 15:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 15:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 15:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	112	%	70-130	05.30.2020 15:37	
4-Bromofluorobenzene		460-00-4	99	%	70-130	05.30.2020 15:37	



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **SSW-7 comp 4'** Matrix: **Soil** Date Received:05.28.2020 16:30
 Lab Sample Id: 662898-079 Date Collected:05.27.2020 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 05.29.2020 15:28 Basis: **Wet Weight**
 Seq Number: 3127508

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	182	50.3	mg/kg	05.29.2020 16:57		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 05.29.2020 11:27 Basis: **Wet Weight**
 Seq Number: 3127513

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	05.29.2020 23:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	05.29.2020 23:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	05.29.2020 23:58	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	05.29.2020 23:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-135	05.29.2020 23:58		
o-Terphenyl	84-15-1	90	%	70-135	05.29.2020 23:58		



Certificate of Analytical Results 662898

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1 H

Sample Id: **SSW-7 comp 4'**

Matrix: **Soil**

Date Received: 05.28.2020 16:30

Lab Sample Id: **662898-079**

Date Collected: 05.27.2020 00:00

Sample Depth: 4 ft

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **MAB**

% Moisture:

Analyst: **MAB**

Date Prep: **05.29.2020 11:15**

Basis: **Wet Weight**

Seq Number: **3127499**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.30.2020 15:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.30.2020 15:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.30.2020 15:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.30.2020 15:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.30.2020 15:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.30.2020 15:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.30.2020 15:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 15:57		
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.30.2020 15:57		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H

Analytical Method: Inorganic Anions by EPA 300/300.1										Prep Method: E300P		
Seq Number:	3127354		Matrix: Solid				Date Prep: 05.28.2020					
MB Sample Id:	7704356-1-BLK		LCS Sample Id: 7704356-1-BKS				LCSD Sample Id: 7704356-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	254	102	255	102	90-110	0	20	mg/kg	05.28.2020 20:27	
Analytical Method: Inorganic Anions by EPA 300/300.1										Prep Method: E300P		
Seq Number:	3127355		Matrix: Solid				Date Prep: 05.28.2020					
MB Sample Id:	7704357-1-BLK		LCS Sample Id: 7704357-1-BKS				LCSD Sample Id: 7704357-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	254	102	90-110	0	20	mg/kg	05.29.2020 00:17	
Analytical Method: Inorganic Anions by EPA 300/300.1										Prep Method: E300P		
Seq Number:	3127359		Matrix: Solid				Date Prep: 05.28.2020					
MB Sample Id:	7704359-1-BLK		LCS Sample Id: 7704359-1-BKS				LCSD Sample Id: 7704359-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	252	101	254	102	90-110	1	20	mg/kg	05.29.2020 04:07	
Analytical Method: Inorganic Anions by EPA 300/300.1										Prep Method: E300P		
Seq Number:	3127506		Matrix: Solid				Date Prep: 05.29.2020					
MB Sample Id:	7704360-1-BLK		LCS Sample Id: 7704360-1-BKS				LCSD Sample Id: 7704360-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	251	100	90-110	0	20	mg/kg	05.29.2020 10:13	
Analytical Method: Inorganic Anions by EPA 300/300.1										Prep Method: E300P		
Seq Number:	3127508		Matrix: Solid				Date Prep: 05.29.2020					
MB Sample Id:	7704361-1-BLK		LCS Sample Id: 7704361-1-BKS				LCSD Sample Id: 7704361-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	251	100	90-110	0	20	mg/kg	05.29.2020 15:19	
Analytical Method: Inorganic Anions by EPA 300/300.1										Prep Method: E300P		
Seq Number:	3127354		Matrix: Soil				Date Prep: 05.28.2020					
Parent Sample Id:	662887-009		MS Sample Id: 662887-009 S				MSD Sample Id: 662887-009 SD					
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1250	201	1440	95	1440	95	90-110	0	20	mg/kg	05.28.2020 20:48	

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



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number:	3127354	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662898-001	MS Sample Id: 662898-001 S				Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	218	199	406	94	407	95	90-110	0	20
								mg/kg	05.28.2020 22:25

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127355	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662898-011	MS Sample Id: 662898-011 S				Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	160	200	352	96	353	97	90-110	0	20
								mg/kg	05.29.2020 00:38

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127355	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662898-021	MS Sample Id: 662898-021 S				Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	194	199	385	96	381	94	90-110	1	20
								mg/kg	05.29.2020 02:16

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127359	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662898-031	MS Sample Id: 662898-031 S				Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	39.9	202	221	90	221	90	90-110	0	20
								mg/kg	05.29.2020 04:28

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127359	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662898-041	MS Sample Id: 662898-041 S				Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	180	200	378	99	371	96	90-110	2	20
								mg/kg	05.29.2020 06:06

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127506	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662898-051	MS Sample Id: 662898-051 S				Date Prep: 05.29.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	112	200	292	90	292	90	90-110	0	20
								mg/kg	05.29.2020 10:34

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

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

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

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



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number:	3127506	Matrix: Soil						Prep Method: E300P				
Parent Sample Id:	662898-061	MS Sample Id: 662898-061 S						Date Prep: 05.29.2020				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	154	199	340	93	334	90	90-110	2	20	mg/kg	05.29.2020 13:45	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127508	Matrix: Soil						Prep Method: E300P				
Parent Sample Id:	662898-071	MS Sample Id: 662898-071 S						Date Prep: 05.29.2020				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	101	200	291	95	282	90	90-110	3	20	mg/kg	05.29.2020 15:40	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127508	Matrix: Soil						Prep Method: E300P				
Parent Sample Id:	662999-001	MS Sample Id: 662999-001 S						Date Prep: 05.29.2020				
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1090	198	1300	106	1290	100	90-110	1	20	mg/kg	05.29.2020 17:11	

Analytical Method: TPH By SW8015 Mod

Seq Number:	3127325	Matrix: Solid						Prep Method: SW8015P				
MB Sample Id:	7704328-1-BLK	LCS Sample Id: 7704328-1-BKS						Date Prep: 05.28.2020				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1130	113	1020	102	70-135	10	35	mg/kg	05.28.2020 22:31	
Diesel Range Organics (DRO)	<50.0	1000	1170	117	1050	105	70-135	11	35	mg/kg	05.28.2020 22:31	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	99		126		130		70-135			%	05.28.2020 22:31	
o-Terphenyl	92		118		106		70-135			%	05.28.2020 22:31	

Analytical Method: TPH By SW8015 Mod

Seq Number:	3127332	Matrix: Solid						Prep Method: SW8015P				
MB Sample Id:	7704326-1-BLK	LCS Sample Id: 7704326-1-BKS						Date Prep: 05.28.2020				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	983	98	982	98	70-135	0	35	mg/kg	05.28.2020 22:31	
Diesel Range Organics (DRO)	<50.0	1000	1160	116	1130	113	70-135	3	35	mg/kg	05.28.2020 22:31	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	132		134		130		70-135			%	05.28.2020 22:31	
o-Terphenyl	135		134		127		70-135			%	05.28.2020 22:31	

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



QC Summary 662898

Tetra Tech- Midland
 Bodacious BSM Federal #1 H
Analytical Method: TPH By SW8015 Mod

Seq Number: 3127494

MB Sample Id: 7704368-1-BLK

Matrix: Solid

LCS Sample Id: 7704368-1-BKS

Prep Method: SW8015P

Date Prep: 05.29.2020

LCSD Sample Id: 7704368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	876	88	852	85	70-135	3	35	mg/kg	05.29.2020 16:08	
Diesel Range Organics (DRO)	<50.0	1000	979	98	946	95	70-135	3	35	mg/kg	05.29.2020 16:08	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	87		104		101		70-135			%	05.29.2020 16:08	
o-Terphenyl	91		98		96		70-135			%	05.29.2020 16:08	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127513

MB Sample Id: 7704374-1-BLK

Matrix: Solid

LCS Sample Id: 7704374-1-BKS

Prep Method: SW8015P

Date Prep: 05.29.2020

LCSD Sample Id: 7704374-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	924	92	932	93	70-135	1	35	mg/kg	05.29.2020 16:08	
Diesel Range Organics (DRO)	<50.0	1000	957	96	961	96	70-135	0	35	mg/kg	05.29.2020 16:08	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	94		121		122		70-135			%	05.29.2020 16:08	
o-Terphenyl	93		97		97		70-135			%	05.29.2020 16:08	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127325

Matrix: Solid

MB Sample Id: 7704328-1-BLK

Prep Method: SW8015P

Date Prep: 05.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.28.2020 22:10	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127332

Matrix: Solid

MB Sample Id: 7704326-1-BLK

Prep Method: SW8015P

Date Prep: 05.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.28.2020 22:10	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127494

Matrix: Solid

MB Sample Id: 7704368-1-BLK

Prep Method: SW8015P

Date Prep: 05.29.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.29.2020 15:47	

 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



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127513

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.29.2020

MB Sample Id: 7704374-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

Analysis
Date

Flag

mg/kg 05.29.2020 15:47

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127325

Matrix: Soil

Prep Method: SW8015P

Parent Sample Id: 662898-001

MS Sample Id: 662898-001 S

Date Prep: 05.28.2020

MSD Sample Id: 662898-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)

Parent Result

Spike Amount

MS Result

MS %Rec

MSD Result

MSD %Rec

Limits

%RPD

RPD Limit

Units

Analysis Date

Flag

mg/kg 05.28.2020 23:32

Surrogate

1-Chlorooctane
o-Terphenyl

MS %Rec

MS Flag

MSD %Rec

MSD Flag

Limits

Limits

Units

Analysis Date

Flag

mg/kg 05.28.2020 23:32

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127322

Matrix: Soil

Prep Method: SW8015P

Parent Sample Id: 662898-021

MS Sample Id: 662898-021 S

Date Prep: 05.28.2020

MSD Sample Id: 662898-021 SD

Parameter

Gasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)

Parent Result

Spike Amount

MS Result

MS %Rec

MSD Result

MSD %Rec

Limits

%RPD

RPD Limit

Units

Analysis Date

Flag

mg/kg 05.28.2020 23:32

Surrogate

1-Chlorooctane
o-Terphenyl

MS %Rec

MS Flag

MSD %Rec

MSD Flag

Limits

Limits

Units

Analysis Date

Flag

mg/kg 05.28.2020 23:32

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127494

Matrix: Soil

Prep Method: SW8015P

Parent Sample Id: 662898-041

MS Sample Id: 662898-041 S

Date Prep: 05.29.2020

MSD Sample Id: 662898-041 SD

Parameter

Gasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)

Parent Result

Spike Amount

MS Result

MS %Rec

MSD Result

MSD %Rec

Limits

%RPD

RPD Limit

Units

Analysis Date

Flag

mg/kg 05.29.2020 17:09

Surrogate

1-Chlorooctane
o-Terphenyl

MS %Rec

MS Flag

MSD %Rec

MSD Flag

Limits

Limits

Units

Analysis Date

Flag

mg/kg 05.29.2020 17:09

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3127513

Parent Sample Id: 662898-061

Matrix: Soil

MS Sample Id: 662898-061 S

Prep Method: SW8015P

Date Prep: 05.29.2020

MSD Sample Id: 662898-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	890	89	908	91	70-135	2	35	mg/kg	05.29.2020 17:09	
Diesel Range Organics (DRO)	<49.9	998	919	92	937	94	70-135	2	35	mg/kg	05.29.2020 17:09	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag			Limits	Units	Analysis Date	
1-Chlorooctane			119			107			70-135	%	05.29.2020 17:09	
o-Terphenyl			97			95			70-135	%	05.29.2020 17:09	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127349

MB Sample Id: 7704339-1-BLK

Matrix: Solid

LCS Sample Id: 7704339-1-BKS

Prep Method: SW5035A

Date Prep: 05.28.2020

LCSD Sample Id: 7704339-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.103	103	70-130	1	35	mg/kg	05.29.2020 00:08	
Toluene	<0.00200	0.100	0.0982	98	0.0983	98	70-130	0	35	mg/kg	05.29.2020 00:08	
Ethylbenzene	<0.00200	0.100	0.0908	91	0.0906	91	71-129	0	35	mg/kg	05.29.2020 00:08	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.186	93	70-135	1	35	mg/kg	05.29.2020 00:08	
o-Xylene	<0.00200	0.100	0.0957	96	0.0949	95	71-133	1	35	mg/kg	05.29.2020 00:08	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag			Limits	Units	Analysis Date	
1,4-Difluorobenzene	111		105			106			70-130	%	05.29.2020 00:08	
4-Bromofluorobenzene	95		90			90			70-130	%	05.29.2020 00:08	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127496

MB Sample Id: 7704342-1-BLK

Matrix: Solid

LCS Sample Id: 7704342-1-BKS

Prep Method: SW5035A

Date Prep: 05.28.2020

LCSD Sample Id: 7704342-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.107	107	70-130	2	35	mg/kg	05.29.2020 11:01	
Toluene	<0.00200	0.100	0.0980	98	0.102	102	70-130	4	35	mg/kg	05.29.2020 11:01	
Ethylbenzene	<0.00200	0.100	0.0906	91	0.0939	94	71-129	4	35	mg/kg	05.29.2020 11:01	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.191	96	70-135	3	35	mg/kg	05.29.2020 11:01	
o-Xylene	<0.00200	0.100	0.0948	95	0.0981	98	71-133	3	35	mg/kg	05.29.2020 11:01	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag			Limits	Units	Analysis Date	
1,4-Difluorobenzene	111		109			107			70-130	%	05.29.2020 11:01	
4-Bromofluorobenzene	94		93			95			70-130	%	05.29.2020 11:01	

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

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

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

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



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127497	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7704346-1-BLK	LCS Sample Id: 7704346-1-BKS						Date Prep: 05.29.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.104	104	0.109	109	70-130	5	35	mg/kg	05.29.2020 21:15
Toluene	<0.00200	0.100	0.100	100	0.104	104	70-130	4	35	mg/kg	05.29.2020 21:15
Ethylbenzene	<0.00200	0.100	0.0942	94	0.0980	98	71-129	4	35	mg/kg	05.29.2020 21:15
m,p-Xylenes	<0.00400	0.200	0.193	97	0.200	100	70-135	4	35	mg/kg	05.29.2020 21:15
o-Xylene	<0.00200	0.100	0.0973	97	0.102	102	71-133	5	35	mg/kg	05.29.2020 21:15
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene	111		107		107		70-130			%	05.29.2020 21:15
4-Bromofluorobenzene	96		91		92		70-130			%	05.29.2020 21:15

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127499	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7704347-1-BLK	LCS Sample Id: 7704347-1-BKS						Date Prep: 05.29.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.107	107	0.108	108	70-130	1	35	mg/kg	05.30.2020 07:27
Toluene	<0.00200	0.100	0.103	103	0.103	103	70-130	0	35	mg/kg	05.30.2020 07:27
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0959	96	71-129	0	35	mg/kg	05.30.2020 07:27
m,p-Xylenes	<0.00400	0.200	0.198	99	0.196	98	70-135	1	35	mg/kg	05.30.2020 07:27
o-Xylene	<0.00200	0.100	0.101	101	0.101	101	71-133	0	35	mg/kg	05.30.2020 07:27
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene	110		106		107		70-130			%	05.30.2020 07:27
4-Bromofluorobenzene	95		91		93		70-130			%	05.30.2020 07:27

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127349	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662898-001	MS Sample Id: 662898-001 S						Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.0998	0.0933	93	0.113	113	70-130	19	35	mg/kg	05.29.2020 00:49
Toluene	<0.00200	0.0998	0.0818	82	0.106	106	70-130	26	35	mg/kg	05.29.2020 00:49
Ethylbenzene	<0.00200	0.0998	0.0721	72	0.0976	98	71-129	30	35	mg/kg	05.29.2020 00:49
m,p-Xylenes	<0.00399	0.200	0.146	73	0.200	100	70-135	31	35	mg/kg	05.29.2020 00:49
o-Xylene	<0.00200	0.0998	0.0763	76	0.102	102	71-133	29	35	mg/kg	05.29.2020 00:49
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			107		108		70-130			%	05.29.2020 00:49
4-Bromofluorobenzene			96		94		70-130			%	05.29.2020 00:49

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



QC Summary 662898

Tetra Tech- Midland
Bodacious BSM Federal #1 H

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127496	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662898-021	MS Sample Id: 662898-021 S						Date Prep: 05.28.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00198	0.0992	0.104	105	0.103	103	70-130	1	35	mg/kg	05.29.2020 11:42
Toluene	<0.00198	0.0992	0.0926	93	0.0928	93	70-130	0	35	mg/kg	05.29.2020 11:42
Ethylbenzene	<0.00198	0.0992	0.0822	83	0.0845	85	71-129	3	35	mg/kg	05.29.2020 11:42
m,p-Xylenes	<0.00397	0.198	0.166	84	0.169	84	70-135	2	35	mg/kg	05.29.2020 11:42
o-Xylene	<0.00198	0.0992	0.0877	88	0.0871	87	71-133	1	35	mg/kg	05.29.2020 11:42
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			107		108		70-130			%	05.29.2020 11:42
4-Bromofluorobenzene			91		95		70-130			%	05.29.2020 11:42

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127497	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662898-041	MS Sample Id: 662898-041 S						Date Prep: 05.29.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00201	0.101	0.103	102	0.110	110	70-130	7	35	mg/kg	05.29.2020 21:55
Toluene	<0.00201	0.101	0.0938	93	0.102	102	70-130	8	35	mg/kg	05.29.2020 21:55
Ethylbenzene	<0.00201	0.101	0.0816	81	0.0917	92	71-129	12	35	mg/kg	05.29.2020 21:55
m,p-Xylenes	<0.00402	0.201	0.166	83	0.186	93	70-135	11	35	mg/kg	05.29.2020 21:55
o-Xylene	<0.00201	0.101	0.0855	85	0.0944	94	71-133	10	35	mg/kg	05.29.2020 21:55
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			108		107		70-130			%	05.29.2020 21:55
4-Bromofluorobenzene			94		94		70-130			%	05.29.2020 21:55

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127499	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662898-061	MS Sample Id: 662898-061 S						Date Prep: 05.29.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00201	0.100	0.105	105	0.111	110	70-130	6	35	mg/kg	05.30.2020 08:07
Toluene	<0.00201	0.100	0.0919	92	0.103	102	70-130	11	35	mg/kg	05.30.2020 08:07
Ethylbenzene	<0.00201	0.100	0.0765	77	0.0948	94	71-129	21	35	mg/kg	05.30.2020 08:07
m,p-Xylenes	<0.00402	0.201	0.153	76	0.193	96	70-135	23	35	mg/kg	05.30.2020 08:07
o-Xylene	<0.00201	0.100	0.0804	80	0.0983	97	71-133	20	35	mg/kg	05.30.2020 08:07
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			106		107		70-130			%	05.30.2020 08:07
4-Bromofluorobenzene			93		93		70-130			%	05.30.2020 08:07

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, Inc.

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Bodacious BSM Federal #1H

Project Location:

Eddy County, New Mexico

Project #:

212C-MD-02190

Invoice to:

James Kennedy

Receiving Laboratory:

Xenco

Comments:

(Circle or Specify Method No.)

ANALYSIS REQUEST

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

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	(Circle or Specify Method No.)					
	YEAR: 2020	DATE					WATER	SOIL	HCL	HNO ₃	ICE	None
Bottomhole-68 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-69 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-70 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-71 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-72 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-73 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-74 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-75 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-76 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X
Bottomhole-77 comp 4'	5/27/2020		X	X	1	N	X	X	X	X	X	X

Received by:
John Thru

Date: 5/24/2022 Time: 11 PM

Indubited by:

John Thru

Date:

5/28/2020

Time:

16:30

Received by:

John Thru

Date:

5/28/2020

Time:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Bodacious BSM Federal #1H

Project Location:

Eddy County, New Mexico

Project #:

212C-MD-02190

(county, state)

Invoice to:

James Kennedy

Receiving Laboratory:

Xenco

Sampler Signature:

Devin Dominguez

Comments:

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

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			MATRIX	PRESERVATIVE METHOD	ANALYSIS REQUEST				
	DATE	TIME	WATER			# CONTAINERS				
						SOIL	HCL	HNO ₃	ICE	None
Bottomhole-78 comp 4'	5/27/2020	X	X	X	X	1	N	X	BTEX 8021B	BTEX 8260B
Bottomhole-79 comp 4'	5/27/2020		X	X	X	1	N	X	TPH TX1005 (Ext to C35)	
Bottomhole-80 comp 4'	5/27/2020		X	X	X	1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)	
Bottomhole-81 comp 4'	5/27/2020		X	X	X	1	N	X	PAH 8270C	
Bottomhole-82 comp 4'	5/27/2020		X	X	X	1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-83 comp 4'	5/27/2020		X	X	X	1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-84 comp 4'	5/27/2020		X	X	X	1	N	X	TCLP Volatiles	
Bottomhole-85 comp 4'	5/27/2020		X	X	X	1	N	X	TCLP Semi Volatiles	
Bottomhole-86 comp 4'	5/27/2020		X	X	X	1	N	X	RCI	
Bottomhole-87 comp 4'	5/27/2020		X	X	X	1	N	X	GC/MS Vol. 8260B / 624	
Inquired by:	Date: 5/22/2022	Time: 12:25 PM	Received by: 5/28/2020	Date: 5/28/2020	Time: 16:30	LAB USE ONLY	REMARKS:	STANDARD		
Inquired by:	Date: 5/24/2022	Time: 11:11 PM	Received by: 5/28/2020	Date: 5/28/2020	Time: 16:30	<input checked="" type="checkbox"/> RUSH: Same Day	24 hr	48 hr		
Inquired by:	Date: 5/24/2022	Time: 11:11 PM	Received by: 5/28/2020	Date: 5/28/2020	Time: 16:30	<input type="checkbox"/> Rush Charges Authorized	12 hr			
Inquired by:	Date: 5/24/2022	Time: 11:11 PM	Received by: 5/28/2020	Date: 5/28/2020	Time: 16:30	<input type="checkbox"/> Special Report Limits or TRRP Report				

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Received by OCD: 5/24/2022 12:25:11 PM

Released to Imaging: 12/15/2022 9:54:23 AM

Analysis Request of Chain of Custody Record

10022878



Tetra Tech, Inc.

901 West Wall Street, Ste 00
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Bodacious BSM Federal #1H

Project Location:

(county, state)
Eddy County, New Mexico

Project #:

212C-MD-02190

Invoice to:
James Kennedy

Sampler Signature:

Devin Dominguez

Receiving Laboratory:
Xenco

Comments:

(Circle or Specify Method No.)

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING YEAR: 2020	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	Hold
	DATE	TIME																									
Bottomhole-88 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-89 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-90 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-91 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-92 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-93 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-94 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-95 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-96 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bottomhole-105 comp 4'	5/27/2020	X	X	X	X	X	1	N	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Date: Time:
Received by:
5/28/2020 1630Date: Time:
Received by:
5/28/2020 1630LAB USE
ONLYREMARKS:
□ STANDARD
 RUSH: Same Day 24 hr 48 hr 72 hr

 Rush Charges Authorized

 Special Report Limits or TRRP Report

2-0

 HAND DELIVERED FEDEX UPS Tracking #: _____

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

 RUSH CHARGES AUTHORIZED

 SPECIAL REPORT LIMITS OR TRRP REPORT

 HOLD

 STANDARD

 HOLD

 SPECIAL REPORT

 RUSH

<input

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4959
Fax (432) 682-3946

Page 4 of 8

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H	Project #:	212C-MD-02190
Project Location: (county, state)	Eddy County, New Mexico	Invoice to:	James Kennedy
Receiving Laboratory:	Xenco	Sampler Signature:	Devin Dominguez
Comments:			

(Circle or Specify Method No.)

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	(Circle or Specify Method No.)		
	YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None
Bottomhole-106 comp 4'	5/27/2020			X		X		1	N
Bottomhole- 107 comp 4'	5/27/2020			X		X		1	N
Bottomhole-108 comp 4'	5/27/2020			X		X		1	N
Bottomhole-109 comp 4'	5/27/2020			X		X		1	N
Bottomhole-110 comp 4'	5/27/2020			X		X		1	N
Bottomhole-111 comp 4'	5/27/2020			X		X		1	N
Bottomhole-112 comp 4'	5/27/2020			X		X		1	N
Bottomhole-120 comp 4'	5/27/2020			X		X		1	N
Bottomhole-121 comp 4'	5/27/2020			X		X		1	N
Bottomhole-122 comp 4'	5/27/2020			X		X		1	N
Inquired by:	Date: 5/27/2020	Time: 16:30	Received by:	Date: 5/28/2020	Time: 16:30	REMARKS:	<input type="checkbox"/> STANDARD	<input checked="" type="checkbox"/> LAB USE ONLY	
Inquired by:	Date: 5/24/2020	Time: 16:30	Received by:	Date: 5/28/2020	Time: 16:30	Sample Temperature	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 12 hr	<input type="checkbox"/> Rush Charges Authorized	
Inquired by:	Date: 5/24/2020	Time: 16:30	Received by:	Date: 5/27/2020	Time: 16:30		<input type="checkbox"/> Special Report Limits or TRRP Report	<input type="checkbox"/> Hold	

(Circle) **HAND DELIVERED**

FEDEX UPS Tracking #: 2002898

ORIGINAL COPY

Received by OCD Date: 5/24/2020 Time: 16:30 Received by: Date: 5/28/2020 Time: 16:30

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 5 of 8
Loc 2898

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H	Project #:	212C-MD-02190
Project Location: (county / state)	Eddy County, New Mexico		
Invoice to:	James Kennedy		
Receiving Laboratory:	Xenco	Sampler Signature:	Devin Dominguez
Comments:			

(Circle or Specify Method No.)

ANALYSIS REQUEST

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

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	YEAR: 2020	DATE					
Bottomhole-123 comp 4'	5/27/2020	X	WATER	HCL	X	1	N
Bottomhole- 124 comp 4'	5/27/2020	X	SOIL	HNO ₃	X	1	N
Bottomhole-125 comp 4'	5/27/2020	X		ICE		1	N
Bottomhole-126 comp 4'	5/27/2020	X		None		1	N
Bottomhole-135 comp 4'	5/27/2020	X				1	N
Bottomhole-136 comp 4'	5/27/2020	X				1	N
Bottomhole-137 comp 4'	5/27/2020	X				1	N
Bottomhole-138 comp 4'	5/27/2020	X				1	N
Bottomhole-139 comp 4'	5/27/2020	X				1	N
Bottomhole-140 comp 4'	5/27/2020	X				1	N

Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY	REMARKS:
5/28/2020	16:30	S 28/20 16:30			<input type="checkbox"/> STANDARD	<input type="checkbox"/> STANDARD
					<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 2 hr	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 2 hr
					<input type="checkbox"/> Rush Charges Authorized	<input type="checkbox"/> Rush Charges Authorized
					<input type="checkbox"/> Special Report Limits or TRRP Report	<input type="checkbox"/> Special Report Limits or TRRP Report

Received by: <i>JF</i>	Date: 5/28/2020	Time: 16:30	Received by: <i>JF</i>	Date: 5/28/2020	Time: 16:30
Inquired by:			Received by:		
Date: Time:			Date: Time:		

HAND DELIVERED

FEDEX

UPS

Tracking #:

ORIGINAL COPY

Received by OCD Date: 5/24/2022 12:25:11 PM

Released by:

Date: Time:

Received by:

Date: Time:

Analysis Request of Chain of Custody Record

Page _____ 6 of _____

Loc 2-898

Tetra Tech, Inc.



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

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H	Project #:	
Project Location: (county, state)	Eddy County, New Mexico	Sampler Signature:	212C-MD-02190
Invoice to:	James Kennedy	Comments:	
Receiving Laboratory:	Xerico	Sampler Signature:	Devin Dominguez

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	(Circle or Specify Method No.)	
	YEAR	DATE	TIME					
Bottomhole-141 comp 4'	2020	5/27/2020		WATER SOIL	HCL HNO ₃ ICE None	1	N	X
Bottomhole- 150 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-151 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-152 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-153 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-154 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-155 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-165 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-166 comp 4'		5/27/2020		X	X	1	N	X
Bottomhole-167 comp 4'		5/27/2020		X	X	1	N	X

inquired by:	Date:	Time:	Received by:	Date:	Time:	REMARKS:	<input type="checkbox"/> STANDARD
<i>Jr T</i>	5/28/2020	1630	<i>J</i>	5/28/20	1630		
inquired by:	Date:	Time:	Received by:	Date:	Time:		<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
inquired by:	Date:	Time:	Received by:	Date:	Time:		<input type="checkbox"/> Rush Charges Authorized
inquired by:	Date:	Time:	Received by:	Date:	Time:		<input type="checkbox"/> Special Report Limits or TRRP Report

<input checked="" type="checkbox"/> HAND DELIVERED		<input type="checkbox"/> FEDEX	<input type="checkbox"/> UPS	Tracking #:
LAB USE ONLY				
<input checked="" type="checkbox"/> Sample Temperature <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report				
20				

Received by OCD 5/24/2022 12:25:11 PM

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Ste 600
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Page _____ 7 of 8

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H	Project #:	212C-MD-02190
Project Location:	Eddy County, New Mexico		
Invoice to:	James Kennedy	Sampler Signature:	Devin Dominguez
Receiving Laboratory:	Xenco	Comments:	

(Circle or Specify Method No.)			
--------------------------------	--	--	--

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		MATRIX	PRESERVATIVE METHOD	SAMPLING		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST				
	YEAR: 2020	DATE			TIME	WATER			SOIL	HCL	HNO ₃	ICE	None
Bottomhole-168 comp 4'	5/27/2020		X		X	X	1	N	X	BTEX 8021B BTEX 8260B			
Bottomhole- 169 comp 4'	5/27/2020		X		X	X	1	N	X	TPH TX1005 (Ext to C35)			
Bottomhole-170 comp 4'	5/27/2020		X		X	X	1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)			
Bottomhole-180 comp 4'	5/27/2020		X		X	X	1	N	X	PAH 8270C			
Bottomhole-181 comp 4'	5/27/2020		X		X	X	1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg			
Bottomhole-182 comp 4'	5/27/2020		X		X	X	1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			
Bottomhole-183 comp 4'	5/27/2020		X		X	X	1	N	X	TCLP Volatiles			
Bottomhole-190 comp 4'	5/27/2020		X		X	X	1	N	X	TCLP Semi Volatiles			
Bottomhole-191 comp 4'	5/27/2020		X		X	X	1	N	X	RCI			
Bottomhole-192 comp 4'	5/27/2020		X		X	X	1	N	X	GC/MS Vol. 8260B / 624			
										GC/MS Semi. Vol. 8270C/625			
										PCB's 8082 / 608			
										NORM			
										PLM (Asbestos)			
										Chloride			
										Chloride Sulfate TDS			
										General Water Chemistry (see attached list)			
										Anion/Cation Balance			
										TPH 8015R			
										Hold			

linquished by: <i>[Signature]</i>	Date: 5/28/2020	Time: 16:30	Received by: <i>[Signature]</i>	Date: 5/28/2020	Time: 16:30
Inquired by: <i>[Signature]</i>	Date: _____	Time: _____	Received by: <i>[Signature]</i>	Date: _____	Time: _____
Inquired by: <i>[Signature]</i>	Date: _____	Time: _____	Received by: <i>[Signature]</i>	Date: _____	Time: _____
LAB USE ONLY REMARKS: <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 2 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report					
(Circle) <input checked="" type="checkbox"/> HAND DELIVERED <input type="checkbox"/> FEDEX <input type="checkbox"/> UPS Tracking #: _____					

Received by OCD 2/24/2022 12:35:11 PM

ORIGINAL COPY

1602898

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page _____ 8 of 8

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H		
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-MD-02190
Invoice to:	James Kennedy		
Receiving Laboratory:	Xenco	Sampler Signature:	Devin Dominguez
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			YEAR: 2020	DATE	TIME	WATER	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)		
												HCL	HNO ₃	
Bottomhole-193 comp 4'				5/27/2020			X			1	N	X	X	BTEX 8021B BTEX 8260B
Bottomhole- 194 comp 4'				5/27/2020			X		X	1	N	X	X	TPH TX1005 (Ext to C35)
ESW-12 comp 4'				5/27/2020			X		X	1	N	X	X	TPH 8015M (GRO - DRO - ORO - MRO)
ESW-13 comp 4'				5/27/2020			X		X	1	N	X	X	PAH 8270C
ESW-14 comp 4'				5/27/2020			X		X	1	N	X	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
ESW-15 comp 4'				5/27/2020			X		X	1	N	X	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
ESW-16 comp 4'				5/27/2020			X		X	1	N	X	X	TCLP Volatiles
SSW-6 comp 4'				5/27/2020			X		X	1	N	X	X	TCLP Semi Volatiles
SSW-7 comp 4'				5/27/2020			X		X	1	N	X	X	RCI
														GC/MS Vol. 8260B / 624
														GC/MS Semi. Vol. 8270C/625
														PCB's 8082 / 608
														NORM
														PLM (Asbestos)
														Chloride
														Chloride Sulfate TDS
														General Water Chemistry (see attached list)
														Anion/Cation Balance
														TPH 8015R
														Hold

Received by: <i>JR</i>	Date: 5/28/2020	Time: 1630	Received by: <i>JR</i>	Date: 5/28/2020	Time: 1630
Released by: <i>JR</i>	Date: 5/28/2020	Time: 1630	Released by: <i>JR</i>	Date: 5/28/2020	Time: 1630
Retained by: <i>JR</i>	Date: 5/28/2020	Time: 1630	Retained by: <i>JR</i>	Date: 5/28/2020	Time: 1630

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 TERRP Report	
(Circle) HAND DELIVERED		FEDEX UPS Tracking #: _____	

Received by **OCD: 2022-05-28 16:30 PM**
Released by: _____
Retained by: _____

Date: _____

Time: _____

ORIGINAL COPY



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-001 Bottomhole-97 comp 4'	662991-002 Bottomhole-98 comp 4'	662991-003 Bottomhole-99 comp 4'	662991-004 Bottomhole-100 comp 4'	662991-005 Bottomhole-101 comp 4'	662991-006 Bottomhole-102 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.01.2020 12:00 06.01.2020 14:46 mg/kg RL	06.01.2020 12:00 06.01.2020 15:06 mg/kg RL	06.01.2020 12:00 06.01.2020 15:26 mg/kg RL	06.01.2020 12:00 06.01.2020 15:47 mg/kg RL	06.01.2020 12:00 06.01.2020 16:07 mg/kg RL	06.01.2020 12:00 06.01.2020 16:27 mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398	<0.00396 0.00396	<0.00401 0.00401	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:00 06.01.2020 11:35 mg/kg RL	06.01.2020 11:00 06.01.2020 11:50 mg/kg RL	06.01.2020 11:00 06.01.2020 11:55 mg/kg RL	06.01.2020 11:00 06.01.2020 12:00 mg/kg RL	06.01.2020 11:00 06.01.2020 12:06 mg/kg RL	06.01.2020 11:00 06.01.2020 12:21 mg/kg RL
Chloride		69.8 4.96	79.5 4.99	85.6 5.05	108 5.05	93.7 4.99	112 4.97
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.29.2020 23:04 mg/kg RL	05.29.2020 16:30 05.30.2020 00:07 mg/kg RL	05.29.2020 16:30 05.30.2020 00:28 mg/kg RL	05.29.2020 16:30 05.30.2020 00:49 mg/kg RL	05.29.2020 16:30 05.30.2020 01:10 mg/kg RL	05.29.2020 16:30 05.30.2020 01:31 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-007 Bottomhole-103 comp 4'	662991-008 Bottomhole-104 comp 4'	662991-009 Bottomhole-113 comp 4'	662991-010 Bottomhole-114 comp 4'	662991-011 Bottomhole-115 comp 4'	662991-012 Bottomhole-116 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.01.2020 12:00 06.01.2020 16:47 mg/kg	06.01.2020 12:00 06.01.2020 17:07 RL	06.01.2020 12:00 06.01.2020 17:27 mg/kg	06.01.2020 12:00 06.01.2020 17:47 RL	06.01.2020 12:00 06.01.2020 20:07 mg/kg	06.01.2020 12:00 06.01.2020 20:27 RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00396 0.00396	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:00 06.01.2020 12:26 mg/kg	06.01.2020 11:00 06.01.2020 12:31 RL	06.01.2020 11:00 06.01.2020 12:36 mg/kg	06.01.2020 11:00 06.01.2020 12:41 RL	06.01.2020 11:00 06.01.2020 12:46 mg/kg	06.01.2020 11:00 06.01.2020 13:01 RL
Chloride		84.5 5.03	95.6 4.98	56.1 5.00	96.0 5.00	105 4.95	99.4 5.02
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.30.2020 01:52 mg/kg	05.29.2020 16:30 05.30.2020 02:13 RL	05.29.2020 16:30 05.30.2020 02:35 mg/kg	05.29.2020 16:30 05.30.2020 02:56 RL	05.29.2020 16:30 05.30.2020 03:39 mg/kg	05.29.2020 16:30 05.30.2020 04:01 RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-013 Bottomhole-117 comp 4'	662991-014 Bottomhole-118 comp 4'	662991-015 Bottomhole-119 comp 4'	662991-016 Bottomhole-127 comp 4'	662991-017 Bottomhole-128 comp 4'	662991-018 Bottomhole-129 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.01.2020 12:00 06.01.2020 20:47 mg/kg	06.01.2020 12:00 06.01.2020 21:07 RL	06.01.2020 12:00 06.01.2020 21:27 mg/kg	06.01.2020 12:00 06.01.2020 21:47 RL	06.01.2020 12:00 06.01.2020 22:07 mg/kg	06.01.2020 12:00 06.01.2020 22:28 RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198
m,p-Xylenes		<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398	<0.00396 0.00396	<0.00397 0.00397
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:00 06.01.2020 13:06 mg/kg	06.01.2020 11:00 06.01.2020 13:22 RL	06.01.2020 11:00 06.01.2020 13:27 mg/kg	06.01.2020 11:00 06.01.2020 13:32 RL	06.01.2020 11:00 06.01.2020 13:37 mg/kg	06.01.2020 11:00 06.01.2020 13:42 RL
Chloride		117 5.05	97.2 5.00	106 4.98	47.1 4.96	112 5.03	50.4 4.99
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.30.2020 04:22 mg/kg	05.29.2020 16:30 05.30.2020 04:44 RL	05.29.2020 16:30 05.30.2020 05:05 mg/kg	05.29.2020 16:30 05.30.2020 05:27 RL	05.29.2020 16:30 05.30.2020 05:48 mg/kg	05.29.2020 16:30 05.30.2020 06:10 RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-019 Bottomhole-130 comp 4'	662991-020 Bottomhole-131 comp 4'	662991-021 Bottomhole-132 comp 4'	662991-022 Bottomhole-133 comp 4'	662991-023 Bottomhole-134 comp 4'	662991-024 Bottomhole-142 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.01.2020 12:00 06.01.2020 22:48 mg/kg	06.01.2020 12:00 06.01.2020 23:08 RL	05.29.2020 00:00 05.29.2020 00:00 mg/kg	05.29.2020 00:00 05.29.2020 00:00 mg/kg	05.29.2020 00:00 05.29.2020 00:00 mg/kg	05.29.2020 00:00 05.29.2020 00:00 mg/kg
Benzene	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00401 0.00401	<0.00399 0.00399	<0.00400 0.00400	<0.00400 0.00400
o-Xylene	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:00 06.01.2020 13:47 mg/kg	06.01.2020 11:00 06.01.2020 13:52 RL	06.01.2020 11:10 06.01.2020 14:22 mg/kg	06.01.2020 11:10 06.01.2020 14:38 RL	06.01.2020 11:10 06.01.2020 14:43 mg/kg	06.01.2020 11:10 06.01.2020 14:48 mg/kg
Chloride	106 4.97	43.9 4.95	110 5.00	51.2 4.98	106 5.00	43.0 4.96	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.30.2020 06:31 mg/kg	05.29.2020 16:30 05.30.2020 06:52 RL	05.29.2020 16:30 05.29.2020 23:04 mg/kg	05.29.2020 16:30 05.30.2020 00:07 RL	05.29.2020 16:30 05.30.2020 00:28 mg/kg	05.29.2020 16:30 05.30.2020 00:49 mg/kg
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9
Total TPH	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-025 Bottomhole-143 comp 4'	662991-026 Bottomhole-144 comp 4'	662991-027 Bottomhole-145 comp 4'	662991-028 Bottomhole-146 comp 4'	662991-029 Bottomhole-147 comp 4'	662991-030 Bottomhole-148 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.30.2020 08:00 05.30.2020 13:53 mg/kg RL	05.30.2020 08:00 05.30.2020 14:14 mg/kg RL	05.30.2020 08:00 05.30.2020 14:34 mg/kg RL	05.30.2020 08:00 05.30.2020 14:54 mg/kg RL	05.30.2020 08:00 05.30.2020 15:15 mg/kg RL	05.30.2020 08:00 05.30.2020 15:35 mg/kg RL
Benzene		<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Toluene		<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Ethylbenzene		<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
m,p-Xylenes		<0.00403 0.00403	<0.00403 0.00403	<0.00399 0.00399	<0.00398 0.00398	<0.00397 0.00397	<0.00402 0.00402
o-Xylene		<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Total Xylenes		<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Total BTEX		<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:10 06.01.2020 14:53 mg/kg RL	06.01.2020 11:10 06.01.2020 15:08 mg/kg RL	06.01.2020 11:10 06.01.2020 15:13 mg/kg RL	06.01.2020 11:10 06.01.2020 15:18 mg/kg RL	06.01.2020 11:10 06.01.2020 15:23 mg/kg RL	06.01.2020 11:10 06.01.2020 15:28 mg/kg RL
Chloride		202 5.03	235 5.00	210 5.05	61.4 4.99	54.4 4.96	92.5 4.99
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.30.2020 01:10 mg/kg RL	05.29.2020 16:30 05.30.2020 01:31 mg/kg RL	05.29.2020 16:30 05.30.2020 01:52 mg/kg RL	05.29.2020 16:30 05.30.2020 02:13 mg/kg RL	05.29.2020 16:30 05.30.2020 02:35 mg/kg RL	05.29.2020 16:30 05.30.2020 02:56 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-031 Bottomhole-149 comp 4'	662991-032 Bottomhole-156 comp 4'	662991-033 Bottomhole-157 comp 4'	662991-034 Bottomhole-158 comp 4'	662991-035 Bottomhole-159 comp 4'	662991-036 Bottomhole-160 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.30.2020 08:00 05.30.2020 16:58 mg/kg RL	05.30.2020 08:00 05.30.2020 17:18 mg/kg RL	05.30.2020 08:00 05.30.2020 17:39 mg/kg RL	05.30.2020 08:00 05.30.2020 17:59 mg/kg RL	05.30.2020 08:00 05.30.2020 18:20 mg/kg RL	05.30.2020 08:00 05.30.2020 18:40 mg/kg RL
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398	<0.00403 0.00403	<0.00400 0.00400	<0.00399 0.00399	<0.00402 0.00402
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:10 06.01.2020 15:33 mg/kg RL	06.01.2020 11:10 06.01.2020 15:48 mg/kg RL	06.01.2020 11:10 06.01.2020 15:53 mg/kg RL	06.01.2020 11:10 06.01.2020 16:09 mg/kg RL	06.01.2020 11:10 06.01.2020 16:14 mg/kg RL	06.01.2020 11:10 06.01.2020 16:19 mg/kg RL
Chloride		92.7 5.00	97.8 5.02	74.3 4.97	108 5.05	78.5 5.05	102 5.05
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.30.2020 03:39 mg/kg RL	05.29.2020 16:30 05.30.2020 04:01 mg/kg RL	05.29.2020 16:30 05.30.2020 04:22 mg/kg RL	05.29.2020 16:30 05.30.2020 04:44 mg/kg RL	05.29.2020 16:30 05.30.2020 05:05 mg/kg RL	05.29.2020 16:30 05.30.2020 05:27 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Page 490 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-037 Bottomhole-161 comp 4'	662991-038 Bottomhole-162 comp 4'	662991-039 Bottomhole-163 comp 4'	662991-040 Bottomhole-164 comp 4'	662991-041 Bottomhole-171 comp 4'	662991-042 Bottomhole-172 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.30.2020 08:00 05.30.2020 19:00 mg/kg	05.30.2020 08:00 05.30.2020 19:21 RL	05.30.2020 08:00 05.30.2020 19:41 mg/kg	05.30.2020 08:00 05.30.2020 20:02 RL	05.30.2020 08:30 05.30.2020 23:05 mg/kg	05.30.2020 08:30 05.30.2020 23:25 RL
Benzene	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes	<0.00399 0.00399	<0.00402 0.00402	<0.00399 0.00399	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00399 0.00399
o-Xylene	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:10 06.01.2020 16:24 mg/kg	06.01.2020 11:10 06.01.2020 16:29 RL	06.01.2020 11:10 06.01.2020 16:34 mg/kg	06.01.2020 11:10 06.01.2020 16:39 RL	06.01.2020 11:20 06.01.2020 17:10 mg/kg	06.01.2020 11:20 06.01.2020 17:25 RL
Chloride	113 5.00	113 4.99	92.6 4.95	63.3 5.04	99.4 5.02	103 4.96	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:30 05.30.2020 05:48 mg/kg	05.29.2020 16:30 05.30.2020 06:10 RL	05.29.2020 16:30 05.30.2020 06:31 mg/kg	05.29.2020 16:30 05.30.2020 06:52 RL	05.29.2020 16:45 05.29.2020 17:47 mg/kg	05.29.2020 16:45 05.29.2020 18:45 RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0
Total TPH	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Page 491 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-043 Bottomhole-173 comp 4'	662991-044 Bottomhole-174 comp 4'	662991-045 Bottomhole-175 comp 4'	662991-046 Bottomhole-176 comp 4'	662991-047 Bottomhole-177 comp 4'	662991-048 Bottomhole-178 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.30.2020 08:30 05.30.2020 23:46 mg/kg RL	05.30.2020 08:30 05.31.2020 00:06 mg/kg RL	05.30.2020 08:30 05.31.2020 00:26 mg/kg RL	05.30.2020 08:30 05.31.2020 00:47 mg/kg RL	05.30.2020 08:30 05.31.2020 01:07 mg/kg RL	05.30.2020 08:30 05.31.2020 01:28 mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403	<0.00399 0.00399	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:20 06.01.2020 17:30 mg/kg RL	06.01.2020 11:20 06.01.2020 17:35 mg/kg RL	06.01.2020 11:20 06.01.2020 17:40 mg/kg RL	06.01.2020 11:20 06.01.2020 17:55 mg/kg RL	06.01.2020 11:20 06.01.2020 18:00 mg/kg RL	06.01.2020 11:20 06.01.2020 18:05 mg/kg RL
Chloride		52.6 5.00	218 5.03	209 4.96	222 5.00	216 4.98	209 5.00
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:45 05.29.2020 19:04 mg/kg RL	05.29.2020 16:45 05.29.2020 19:23 mg/kg RL	05.29.2020 16:45 05.29.2020 19:42 mg/kg RL	05.29.2020 16:45 05.29.2020 20:01 mg/kg RL	05.29.2020 16:45 05.29.2020 20:20 mg/kg RL	05.29.2020 16:45 05.29.2020 20:40 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 662991

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 05.29.2020 15:18

Contact: Brittany Long

Report Date: 06.03.2020 07:59

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	662991-049 Bottomhole-179 comp 4' SOIL 05.29.2020 00:00					
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	05.30.2020 08:30 05.31.2020 01:48 mg/kg RL					
Benzene		<0.00198 0.00198					
Toluene		<0.00198 0.00198					
Ethylbenzene		<0.00198 0.00198					
m,p-Xylenes		<0.00397 0.00397					
o-Xylene		<0.00198 0.00198					
Total Xylenes		<0.00198 0.00198					
Total BTEX		<0.00198 0.00198					
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.01.2020 11:20 06.01.2020 18:10 mg/kg RL					
Chloride		78.1 5.00					
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	05.29.2020 16:45 05.29.2020 20:59 mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0					
Diesel Range Organics (DRO)		<50.0 50.0					
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0					
Total TPH		<50.0 50.0					

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

Jessica Kramer
Project Manager



Analytical Report 662991

for

Tetra Tech- Midland

Project Manager: Brittany Long

Bodacious BSM Federal #1H

212C-MD-02190

06.03.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.03.2020

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **662991**

Bodacious BSM Federal #1H

Project Address: Eddy County, New Mexico

Brittany Long:

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) 662991. 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. 662991 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 Manager

A Small Business and Minority Company

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



Sample Cross Reference 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottomhole-97 comp 4'	S	05.29.2020 00:00		662991-001
Bottomhole-98 comp 4'	S	05.29.2020 00:00		662991-002
Bottomhole-99 comp 4'	S	05.29.2020 00:00		662991-003
Bottomhole-100 comp 4'	S	05.29.2020 00:00		662991-004
Bottomhole-101 comp 4'	S	05.29.2020 00:00		662991-005
Bottomhole-102 comp 4'	S	05.29.2020 00:00		662991-006
Bottomhole-103 comp 4'	S	05.29.2020 00:00		662991-007
Bottomhole-104 comp 4'	S	05.29.2020 00:00		662991-008
Bottomhole-113 comp 4'	S	05.29.2020 00:00		662991-009
Bottomhole-114 comp 4'	S	05.29.2020 00:00		662991-010
Bottomhole-115 comp 4'	S	05.29.2020 00:00		662991-011
Bottomhole-116 comp 4'	S	05.29.2020 00:00		662991-012
Bottomhole-117 comp 4'	S	05.29.2020 00:00		662991-013
Bottomhole-118 comp 4'	S	05.29.2020 00:00		662991-014
Bottomhole-119 comp 4'	S	05.29.2020 00:00		662991-015
Bottomhole-127 comp 4'	S	05.29.2020 00:00		662991-016
Bottomhole-128 comp 4'	S	05.29.2020 00:00		662991-017
Bottomhole-129 comp 4'	S	05.29.2020 00:00		662991-018
Bottomhole-130 comp 4'	S	05.29.2020 00:00		662991-019
Bottomhole-131 comp 4'	S	05.29.2020 00:00		662991-020
Bottomhole-132 comp 4'	S	05.29.2020 00:00		662991-021
Bottomhole-133 comp 4'	S	05.29.2020 00:00		662991-022
Bottomhole-134 comp 4'	S	05.29.2020 00:00		662991-023
Bottomhole-142 comp 4'	S	05.29.2020 00:00		662991-024
Bottomhole-143 comp 4'	S	05.29.2020 00:00		662991-025
Bottomhole-144 comp 4'	S	05.29.2020 00:00		662991-026
Bottomhole-145 comp 4'	S	05.29.2020 00:00		662991-027
Bottomhole-146 comp 4'	S	05.29.2020 00:00		662991-028
Bottomhole-147 comp 4'	S	05.29.2020 00:00		662991-029
Bottomhole-148 comp 4'	S	05.29.2020 00:00		662991-030
Bottomhole-149 comp 4'	S	05.29.2020 00:00		662991-031
Bottomhole-156 comp 4'	S	05.29.2020 00:00		662991-032
Bottomhole-157 comp 4'	S	05.29.2020 00:00		662991-033
Bottomhole-158 comp 4'	S	05.29.2020 00:00		662991-034
Bottomhole-159 comp 4'	S	05.29.2020 00:00		662991-035
Bottomhole-160 comp 4'	S	05.29.2020 00:00		662991-036
Bottomhole-161 comp 4'	S	05.29.2020 00:00		662991-037
Bottomhole-162 comp 4'	S	05.29.2020 00:00		662991-038
Bottomhole-163 comp 4'	S	05.29.2020 00:00		662991-039
Bottomhole-164 comp 4'	S	05.29.2020 00:00		662991-040
Bottomhole-171 comp 4'	S	05.29.2020 00:00		662991-041
Bottomhole-172 comp 4'	S	05.29.2020 00:00		662991-042
Bottomhole-173 comp 4'	S	05.29.2020 00:00		662991-043

**Sample Cross Reference 662991****Tetra Tech- Midland, Midland, TX**

Bodacious BSM Federal #1H

Bottomhole-174 comp 4'	S	05.29.2020 00:00	662991-044
Bottomhole-175 comp 4'	S	05.29.2020 00:00	662991-045
Bottomhole-176 comp 4'	S	05.29.2020 00:00	662991-046
Bottomhole-177 comp 4'	S	05.29.2020 00:00	662991-047
Bottomhole-178 comp 4'	S	05.29.2020 00:00	662991-048
Bottomhole-179 comp 4'	S	05.29.2020 00:00	662991-049

Client Name: Tetra Tech- Midland
Project Name: Bodacious BSM Federal #1H

Project ID: 212C-MD-02190
Work Order Number(s): 662991

Report Date: 06.03.2020
Date Received: 05.29.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3127479 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 662991-040,662991-033.

Batch: LBA-3127640 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 662991-001 S,662991-001 SD,662991-007,662991-008,662991-009,662991-010,662991-012,662991-013,662991-015,662991-016,662991-017,662991-018,662991-019,662991-020,662991-006,662991-005,662991-004,662991-003,662991-002,662991-014.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7704562-1-BKS,662991-001 S,662991-001 SD,662991-020,662991-015,662991-016,662991-017,662991-019.



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-97 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-001 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.8	4.96	mg/kg	06.01.2020 11:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	05.29.2020 23:04	
o-Terphenyl	84-15-1	96	%	70-130	05.29.2020 23:04	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-97 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-001 Date Collected: 05.29.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Basis: Wet Weight
 Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 14:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.01.2020 14:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.01.2020 14:46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.01.2020 14:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 14:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.01.2020 14:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.01.2020 14:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	06.01.2020 14:46		
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.01.2020 14:46		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-98 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-002 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.5	4.99	mg/kg	06.01.2020 11:50		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 00:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 00:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 00:07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 00:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	05.30.2020 00:07	
o-Terphenyl	84-15-1	93	%	70-130	05.30.2020 00:07	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-98 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-002

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 15:06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 15:06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 15:06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 15:06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 15:06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 15:06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 15:06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	131	%	70-130	06.01.2020 15:06	**
4-Bromofluorobenzene		460-00-4	114	%	70-130	06.01.2020 15:06	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-99 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-003 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	85.6	5.05	mg/kg	06.01.2020 11:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 00:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 00:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 00:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 00:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.30.2020 00:28	
o-Terphenyl	84-15-1	96	%	70-130	05.30.2020 00:28	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-99 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-003 Date Collected: 05.29.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: AMF Basis: Wet Weight
 Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 15:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 15:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 15:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 15:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 15:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 15:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 15:26	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	131	%	70-130	06.01.2020 15:26	**	
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.01.2020 15:26		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-100 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-004 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	5.05	mg/kg	06.01.2020 12:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.30.2020 00:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.30.2020 00:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.30.2020 00:49	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.30.2020 00:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.30.2020 00:49	
o-Terphenyl	84-15-1	98	%	70-130	05.30.2020 00:49	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-100 comp 4'**

Matrix: **Soil**

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-004

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 15:47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.01.2020 15:47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.01.2020 15:47	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.01.2020 15:47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 15:47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.01.2020 15:47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.01.2020 15:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	116	%	70-130	06.01.2020 15:47	
1,4-Difluorobenzene		540-36-3	139	%	70-130	06.01.2020 15:47	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-101 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-005 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.7	4.99	mg/kg	06.01.2020 12:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	05.30.2020 01:10	
o-Terphenyl	84-15-1	95	%	70-130	05.30.2020 01:10	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-101 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-005

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 16:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 16:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 16:07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.01.2020 16:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 16:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 16:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 16:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	113	%	70-130	06.01.2020 16:07	
1,4-Difluorobenzene		540-36-3	142	%	70-130	06.01.2020 16:07	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-102 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-006 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	4.97	mg/kg	06.01.2020 12:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 01:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.30.2020 01:31	
o-Terphenyl	84-15-1	96	%	70-130	05.30.2020 01:31	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-102 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-006

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.01.2020 16:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.01.2020 16:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.01.2020 16:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.01.2020 16:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.01.2020 16:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.01.2020 16:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.01.2020 16:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	111	%	70-130	06.01.2020 16:27	
1,4-Difluorobenzene		540-36-3	137	%	70-130	06.01.2020 16:27	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-103 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-007 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.5	5.03	mg/kg	06.01.2020 12:26		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	05.30.2020 01:52	
o-Terphenyl	84-15-1	104	%	70-130	05.30.2020 01:52	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-103 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-007

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 16:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 16:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 16:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 16:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 16:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 16:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 16:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	142	%	70-130	06.01.2020 16:47	**
4-Bromofluorobenzene		460-00-4	112	%	70-130	06.01.2020 16:47	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-104 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-008 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.6	4.98	mg/kg	06.01.2020 12:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 02:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 02:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 02:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 02:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	05.30.2020 02:13	
o-Terphenyl	84-15-1	94	%	70-130	05.30.2020 02:13	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-104 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-008

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 17:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 17:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 17:07	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.01.2020 17:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 17:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 17:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 17:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	140	%	70-130	06.01.2020 17:07	**
4-Bromofluorobenzene		460-00-4	113	%	70-130	06.01.2020 17:07	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-113 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-009 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.1	5.00	mg/kg	06.01.2020 12:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 02:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 02:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 02:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 02:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.30.2020 02:35	
o-Terphenyl	84-15-1	97	%	70-130	05.30.2020 02:35	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-113 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-009

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 17:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 17:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 17:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 17:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 17:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 17:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 17:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	125	%	70-130	06.01.2020 17:27	
1,4-Difluorobenzene		540-36-3	146	%	70-130	06.01.2020 17:27	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-114 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-010 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.0	5.00	mg/kg	06.01.2020 12:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.30.2020 02:56	
o-Terphenyl	84-15-1	89	%	70-130	05.30.2020 02:56	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-114 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-010

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 17:47	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.01.2020 17:47	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.01.2020 17:47	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.01.2020 17:47	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 17:47	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.01.2020 17:47	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.01.2020 17:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	119	%	70-130	06.01.2020 17:47	
1,4-Difluorobenzene		540-36-3	147	%	70-130	06.01.2020 17:47	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-115 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-011 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	4.95	mg/kg	06.01.2020 12:46		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.30.2020 03:39	
o-Terphenyl	84-15-1	94	%	70-130	05.30.2020 03:39	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-115 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-011

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 20:07	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.01.2020 20:07	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.01.2020 20:07	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.01.2020 20:07	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 20:07	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.01.2020 20:07	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.01.2020 20:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	113	%	70-130	06.01.2020 20:07	
4-Bromofluorobenzene		460-00-4	121	%	70-130	06.01.2020 20:07	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-116 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-012 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.4	5.02	mg/kg	06.01.2020 13:01		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 04:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 04:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 04:01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 04:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	05.30.2020 04:01	
o-Terphenyl	84-15-1	102	%	70-130	05.30.2020 04:01	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-116 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-012

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 20:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 20:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 20:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 20:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 20:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 20:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 20:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	142	%	70-130	06.01.2020 20:27	**
4-Bromofluorobenzene		460-00-4	106	%	70-130	06.01.2020 20:27	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-117 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-013 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	117	5.05	mg/kg	06.01.2020 13:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 04:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 04:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 04:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 04:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.30.2020 04:22	
o-Terphenyl	84-15-1	95	%	70-130	05.30.2020 04:22	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-117 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-013

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 20:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 20:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 20:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 20:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 20:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 20:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 20:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	142	%	70-130	06.01.2020 20:47	**
4-Bromofluorobenzene		460-00-4	120	%	70-130	06.01.2020 20:47	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-118 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-014 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.2	5.00	mg/kg	06.01.2020 13:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 04:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 04:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 04:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 04:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	05.30.2020 04:44	
o-Terphenyl	84-15-1	108	%	70-130	05.30.2020 04:44	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-118 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-014

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 21:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 21:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 21:07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.01.2020 21:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 21:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 21:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 21:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	151	%	70-130	06.01.2020 21:07	**
4-Bromofluorobenzene		460-00-4	121	%	70-130	06.01.2020 21:07	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-119 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-015 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	4.98	mg/kg	06.01.2020 13:27		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 05:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 05:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 05:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 05:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.30.2020 05:05	
o-Terphenyl	84-15-1	97	%	70-130	05.30.2020 05:05	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-119 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-015

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 21:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 21:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 21:27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.01.2020 21:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 21:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 21:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 21:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	158	%	70-130	06.01.2020 21:27	**
4-Bromofluorobenzene		460-00-4	131	%	70-130	06.01.2020 21:27	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-127 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-016 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.1	4.96	mg/kg	06.01.2020 13:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.30.2020 05:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.30.2020 05:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.30.2020 05:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.30.2020 05:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	05.30.2020 05:27	
o-Terphenyl	84-15-1	92	%	70-130	05.30.2020 05:27	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-127 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-016

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 21:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 21:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 21:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 21:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 21:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 21:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 21:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	140	%	70-130	06.01.2020 21:47	**
1,4-Difluorobenzene		540-36-3	161	%	70-130	06.01.2020 21:47	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-128 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-017 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	5.03	mg/kg	06.01.2020 13:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.30.2020 05:48	
o-Terphenyl	84-15-1	97	%	70-130	05.30.2020 05:48	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-128 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-017

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 22:07	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.01.2020 22:07	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.01.2020 22:07	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.01.2020 22:07	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 22:07	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.01.2020 22:07	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.01.2020 22:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	142	%	70-130	06.01.2020 22:07	**
1,4-Difluorobenzene		540-36-3	162	%	70-130	06.01.2020 22:07	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-129 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-018 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.4	4.99	mg/kg	06.01.2020 13:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	05.30.2020 06:10	
o-Terphenyl	84-15-1	92	%	70-130	05.30.2020 06:10	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-129 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-018

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 22:28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.01.2020 22:28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.01.2020 22:28	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.01.2020 22:28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 22:28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.01.2020 22:28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.01.2020 22:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	153	%	70-130	06.01.2020 22:28	**
4-Bromofluorobenzene		460-00-4	129	%	70-130	06.01.2020 22:28	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-130 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-019 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	4.97	mg/kg	06.01.2020 13:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 06:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 06:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 06:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 06:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	97	%	70-130	05.30.2020 06:31		
o-Terphenyl	84-15-1	99	%	70-130	05.30.2020 06:31		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-130 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-019

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.01.2020 22:48	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.01.2020 22:48	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.01.2020 22:48	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.01.2020 22:48	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.01.2020 22:48	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.01.2020 22:48	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.01.2020 22:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	161	%	70-130	06.01.2020 22:48	**
4-Bromofluorobenzene		460-00-4	144	%	70-130	06.01.2020 22:48	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-131 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-020 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:00 Basis: Wet Weight
 Seq Number: 3127622

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.9	4.95	mg/kg	06.01.2020 13:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127488

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 06:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 06:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 06:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 06:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.30.2020 06:52	
o-Terphenyl	84-15-1	96	%	70-130	05.30.2020 06:52	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-131 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-020

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 06.01.2020 12:00

Basis: Wet Weight

Seq Number: 3127640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 23:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 23:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 23:08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.01.2020 23:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 23:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 23:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 23:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	137	%	70-130	06.01.2020 23:08	**
1,4-Difluorobenzene		540-36-3	153	%	70-130	06.01.2020 23:08	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-132 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-021 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	5.00	mg/kg	06.01.2020 14:22		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 23:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.29.2020 23:04	
o-Terphenyl	84-15-1	80	%	70-130	05.29.2020 23:04	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-132 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-021

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 12:32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 12:32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 12:32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 12:32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 12:32	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 12:32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 12:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	05.30.2020 12:32		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.30.2020 12:32		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-133 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-022 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.2	4.98	mg/kg	06.01.2020 14:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 00:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 00:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 00:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 00:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	05.30.2020 00:07	
o-Terphenyl	84-15-1	81	%	70-130	05.30.2020 00:07	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-133 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-022

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 12:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 12:52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 12:52	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.30.2020 12:52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 12:52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 12:52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 12:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.30.2020 12:52		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 12:52		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-134 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-023 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	5.00	mg/kg	06.01.2020 14:43		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 00:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 00:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 00:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 00:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.30.2020 00:28	
o-Terphenyl	84-15-1	82	%	70-130	05.30.2020 00:28	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-134 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-023

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 13:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 13:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 13:12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 13:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 13:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 13:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 13:12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	107	%	70-130	05.30.2020 13:12	
4-Bromofluorobenzene		460-00-4	125	%	70-130	05.30.2020 13:12	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-142 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-024 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.0	4.96	mg/kg	06.01.2020 14:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 00:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 00:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 00:49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 00:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	05.30.2020 00:49	
o-Terphenyl	84-15-1	75	%	70-130	05.30.2020 00:49	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-142 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-024

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 13:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 13:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 13:33	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 13:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 13:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 13:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 13:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.30.2020 13:33		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 13:33		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-143 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-025 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	202	5.03	mg/kg	06.01.2020 14:53		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 01:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-130	05.30.2020 01:10	
o-Terphenyl	84-15-1	74	%	70-130	05.30.2020 01:10	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-143 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-025

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 13:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 13:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 13:53	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 13:53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 13:53	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 13:53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 13:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 13:53		
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.30.2020 13:53		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-144 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-026 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	235	5.00	mg/kg	06.01.2020 15:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.30.2020 01:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.30.2020 01:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.30.2020 01:31	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.30.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	05.30.2020 01:31	
o-Terphenyl	84-15-1	74	%	70-130	05.30.2020 01:31	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-144 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-026

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 14:14	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 14:14	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 14:14	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 14:14	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 14:14	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 14:14	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 14:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 14:14		
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.30.2020 14:14		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-145 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-027 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	210	5.05	mg/kg	06.01.2020 15:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 01:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	05.30.2020 01:52	
o-Terphenyl	84-15-1	74	%	70-130	05.30.2020 01:52	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-145 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-027

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 14:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 14:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 14:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 14:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 14:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 14:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 14:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	05.30.2020 14:34		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.30.2020 14:34		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-146 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-028 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	61.4	4.99	mg/kg	06.01.2020 15:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 02:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 02:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 02:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 02:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	05.30.2020 02:13	
o-Terphenyl	84-15-1	96	%	70-130	05.30.2020 02:13	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-146 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-028

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.30.2020 14:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.30.2020 14:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.30.2020 14:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.30.2020 14:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.30.2020 14:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.30.2020 14:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.30.2020 14:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	108	%	70-130	05.30.2020 14:54	
4-Bromofluorobenzene		460-00-4	122	%	70-130	05.30.2020 14:54	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-147 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-029 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.4	4.96	mg/kg	06.01.2020 15:23		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.30.2020 02:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.30.2020 02:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.30.2020 02:35	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.30.2020 02:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	05.30.2020 02:35	
o-Terphenyl	84-15-1	78	%	70-130	05.30.2020 02:35	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-147 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-029

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.30.2020 15:15	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.30.2020 15:15	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.30.2020 15:15	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.30.2020 15:15	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.30.2020 15:15	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.30.2020 15:15	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.30.2020 15:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 15:15		
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.30.2020 15:15		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-148 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-030 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.5	4.99	mg/kg	06.01.2020 15:28		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 02:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	05.30.2020 02:56	
o-Terphenyl	84-15-1	88	%	70-130	05.30.2020 02:56	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-148 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-030

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 15:35	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 15:35	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 15:35	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 15:35	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 15:35	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 15:35	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 15:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	05.30.2020 15:35		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.30.2020 15:35		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-149 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-031 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.7	5.00	mg/kg	06.01.2020 15:33		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 03:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	05.30.2020 03:39	
o-Terphenyl	84-15-1	79	%	70-130	05.30.2020 03:39	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-149 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-031

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 16:58	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 16:58	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 16:58	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 16:58	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 16:58	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 16:58	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 16:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	05.30.2020 16:58		
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.30.2020 16:58		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-156 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-032 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.8	5.02	mg/kg	06.01.2020 15:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 04:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 04:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 04:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 04:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	05.30.2020 04:01	
o-Terphenyl	84-15-1	81	%	70-130	05.30.2020 04:01	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-156 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-032

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.30.2020 17:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.30.2020 17:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.30.2020 17:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.30.2020 17:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.30.2020 17:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.30.2020 17:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.30.2020 17:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 17:18		
4-Bromofluorobenzene	460-00-4	128	%	70-130	05.30.2020 17:18		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-157 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-033 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	74.3	4.97	mg/kg	06.01.2020 15:53		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 04:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 04:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 04:22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 04:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	05.30.2020 04:22	
o-Terphenyl	84-15-1	78	%	70-130	05.30.2020 04:22	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-157 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-033

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.30.2020 17:39	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.30.2020 17:39	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.30.2020 17:39	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.30.2020 17:39	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.30.2020 17:39	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.30.2020 17:39	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.30.2020 17:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	05.30.2020 17:39	
4-Bromofluorobenzene		460-00-4	132	%	70-130	05.30.2020 17:39	**



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-158 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-034 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	5.05	mg/kg	06.01.2020 16:09		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.30.2020 04:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.30.2020 04:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.30.2020 04:44	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.30.2020 04:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	05.30.2020 04:44	
o-Terphenyl	84-15-1	86	%	70-130	05.30.2020 04:44	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-158 comp 4'**

Matrix: **Soil**

Date Received:05.29.2020 15:18

Lab Sample Id: 662991-034

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.30.2020 08:00

Basis: **Wet Weight**

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 17:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 17:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 17:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 17:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 17:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 17:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 17:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	05.30.2020 17:59		
4-Bromofluorobenzene	460-00-4	122	%	70-130	05.30.2020 17:59		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-159 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-035 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.5	5.05	mg/kg	06.01.2020 16:14		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 05:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 05:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 05:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 05:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.30.2020 05:05	
o-Terphenyl	84-15-1	84	%	70-130	05.30.2020 05:05	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-159 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-035

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 18:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 18:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 18:20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 18:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 18:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 18:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 18:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	125	%	70-130	05.30.2020 18:20		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 18:20		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-160 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-036 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.05	mg/kg	06.01.2020 16:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 05:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 05:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 05:27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 05:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	05.30.2020 05:27	
o-Terphenyl	84-15-1	84	%	70-130	05.30.2020 05:27	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-160 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-036

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 18:40	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 18:40	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 18:40	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 18:40	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 18:40	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 18:40	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 18:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 18:40		
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.30.2020 18:40		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-161 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-037 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	5.00	mg/kg	06.01.2020 16:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 05:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	05.30.2020 05:48	
o-Terphenyl	84-15-1	88	%	70-130	05.30.2020 05:48	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-161 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-037

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 19:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 19:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 19:00	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 19:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 19:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 19:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 19:00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	126	%	70-130	05.30.2020 19:00	
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.30.2020 19:00	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-162 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-038 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	4.99	mg/kg	06.01.2020 16:29		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.30.2020 06:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	88	%	70-130	05.30.2020 06:10		
o-Terphenyl	84-15-1	87	%	70-130	05.30.2020 06:10		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-162 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-038 Date Collected: 05.29.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.30.2020 08:00 Basis: Wet Weight
 Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.30.2020 19:21	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.30.2020 19:21	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.30.2020 19:21	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.30.2020 19:21	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.30.2020 19:21	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.30.2020 19:21	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.30.2020 19:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	126	%	70-130	05.30.2020 19:21		
1,4-Difluorobenzene	540-36-3	110	%	70-130	05.30.2020 19:21		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-163 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-039 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.6	4.95	mg/kg	06.01.2020 16:34		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.30.2020 06:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.30.2020 06:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.30.2020 06:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.30.2020 06:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	05.30.2020 06:31	
o-Terphenyl	84-15-1	88	%	70-130	05.30.2020 06:31	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-163 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-039

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 19:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 19:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 19:41	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 19:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 19:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 19:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 19:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	05.30.2020 19:41		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.30.2020 19:41		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-164 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-040 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:10 Basis: Wet Weight
 Seq Number: 3127624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.3	5.04	mg/kg	06.01.2020 16:39		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3127485

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.30.2020 06:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.30.2020 06:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.30.2020 06:52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.30.2020 06:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	05.30.2020 06:52	
o-Terphenyl	84-15-1	79	%	70-130	05.30.2020 06:52	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-164 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-040

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:00

Basis: Wet Weight

Seq Number: 3127479

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 20:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 20:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 20:02	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 20:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 20:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 20:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 20:02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	133	%	70-130	05.30.2020 20:02	**
1,4-Difluorobenzene		540-36-3	110	%	70-130	05.30.2020 20:02	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-171 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-041 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.4	5.02	mg/kg	06.01.2020 17:10		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 17:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 17:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 17:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 17:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	05.29.2020 17:47	
o-Terphenyl	84-15-1	96	%	70-130	05.29.2020 17:47	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-171 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-041

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 23:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 23:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 23:05	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.30.2020 23:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 23:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 23:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 23:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	106	%	70-130	05.30.2020 23:05	
4-Bromofluorobenzene		460-00-4	119	%	70-130	05.30.2020 23:05	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-172 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-042 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	4.96	mg/kg	06.01.2020 17:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 18:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 18:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 18:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 18:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	05.29.2020 18:45	
o-Terphenyl	84-15-1	101	%	70-130	05.29.2020 18:45	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-172 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-042 Date Collected: 05.29.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 05.30.2020 08:30 Basis: Wet Weight
 Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.30.2020 23:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.30.2020 23:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.30.2020 23:25	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.30.2020 23:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.30.2020 23:25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.30.2020 23:25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.30.2020 23:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	130	%	70-130	05.30.2020 23:25		
1,4-Difluorobenzene	540-36-3	111	%	70-130	05.30.2020 23:25		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-173 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-043 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.6	5.00	mg/kg	06.01.2020 17:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 19:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 19:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 19:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 19:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	05.29.2020 19:04	
o-Terphenyl	84-15-1	101	%	70-130	05.29.2020 19:04	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-173 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-043

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.30.2020 23:46	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.30.2020 23:46	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.30.2020 23:46	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.30.2020 23:46	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.30.2020 23:46	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.30.2020 23:46	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.30.2020 23:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	124	%	70-130	05.30.2020 23:46		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.30.2020 23:46		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-174 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-044 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	218	5.03	mg/kg	06.01.2020 17:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 19:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 19:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 19:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 19:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	05.29.2020 19:23	
o-Terphenyl	84-15-1	97	%	70-130	05.29.2020 19:23	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-174 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-044

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.31.2020 00:06	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.31.2020 00:06	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.31.2020 00:06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.31.2020 00:06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.31.2020 00:06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.31.2020 00:06	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.31.2020 00:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	05.31.2020 00:06		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.31.2020 00:06		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-175 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-045 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:20 Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	209	4.96	mg/kg	06.01.2020 17:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:45 Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 19:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 19:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 19:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 19:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	05.29.2020 19:42	
o-Terphenyl	84-15-1	92	%	70-130	05.29.2020 19:42	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-175 comp 4'**

Matrix: **Soil**

Date Received:05.29.2020 15:18

Lab Sample Id: 662991-045

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: 05.30.2020 08:30

Basis: **Wet Weight**

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.31.2020 00:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.31.2020 00:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.31.2020 00:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.31.2020 00:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.31.2020 00:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.31.2020 00:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.31.2020 00:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.31.2020 00:26		
4-Bromofluorobenzene	460-00-4	122	%	70-130	05.31.2020 00:26		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-176 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-046 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	222	5.00	mg/kg	06.01.2020 17:55		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 20:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 20:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 20:01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 20:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	05.29.2020 20:01	
o-Terphenyl	84-15-1	93	%	70-130	05.29.2020 20:01	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-176 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-046

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.31.2020 00:47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.31.2020 00:47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.31.2020 00:47	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.31.2020 00:47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.31.2020 00:47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.31.2020 00:47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.31.2020 00:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.31.2020 00:47		
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.31.2020 00:47		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-177 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-047 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:20 Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	216	4.98	mg/kg	06.01.2020 18:00		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:45 Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 20:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 20:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 20:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 20:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	05.29.2020 20:20	
o-Terphenyl	84-15-1	95	%	70-130	05.29.2020 20:20	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-177 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-047

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.31.2020 01:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.31.2020 01:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.31.2020 01:07	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	05.31.2020 01:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.31.2020 01:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.31.2020 01:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.31.2020 01:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	130	%	70-130	05.31.2020 01:07	
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.31.2020 01:07	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-178 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-048 Date Collected: 05.29.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Date Prep: 06.01.2020 11:20 Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	209	5.00	mg/kg	06.01.2020 18:05		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 05.29.2020 16:45 Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.29.2020 20:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.29.2020 20:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.29.2020 20:40	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.29.2020 20:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	05.29.2020 20:40	
o-Terphenyl	84-15-1	98	%	70-130	05.29.2020 20:40	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-178 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-048

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	05.31.2020 01:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	05.31.2020 01:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	05.31.2020 01:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	05.31.2020 01:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	05.31.2020 01:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	05.31.2020 01:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	05.31.2020 01:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.31.2020 01:28		
4-Bromofluorobenzene	460-00-4	127	%	70-130	05.31.2020 01:28		



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-179 comp 4'** Matrix: Soil Date Received:05.29.2020 15:18
 Lab Sample Id: 662991-049 Date Collected: 05.29.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3127625

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.1	5.00	mg/kg	06.01.2020 18:10		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3127481

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.29.2020 20:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.29.2020 20:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.29.2020 20:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.29.2020 20:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	05.29.2020 20:59	
o-Terphenyl	84-15-1	108	%	70-130	05.29.2020 20:59	



Certificate of Analytical Results 662991

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-179 comp 4'**

Matrix: Soil

Date Received: 05.29.2020 15:18

Lab Sample Id: 662991-049

Date Collected: 05.29.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 05.30.2020 08:30

Basis: Wet Weight

Seq Number: 3127480

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.31.2020 01:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.31.2020 01:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.31.2020 01:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.31.2020 01:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.31.2020 01:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.31.2020 01:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.31.2020 01:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	109	%	70-130	05.31.2020 01:48	
4-Bromofluorobenzene		460-00-4	130	%	70-130	05.31.2020 01:48	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



QC Summary 662991

Tetra Tech- Midland
 Bodacious BSM Federal #1H
Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127622	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704458-1-BLK	LCS Sample Id: 7704458-1-BKS				Date Prep: 06.01.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	254	102	242	97	90-110	5	20
								mg/kg	06.01.2020 11:25

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127624	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704459-1-BLK	LCS Sample Id: 7704459-1-BKS				Date Prep: 06.01.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	245	98	236	94	90-110	4	20
								mg/kg	06.01.2020 14:12

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127625	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704462-1-BLK	LCS Sample Id: 7704462-1-BKS				Date Prep: 06.01.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	253	101	248	99	90-110	2	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127622	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662991-001	MS Sample Id: 662991-001 S				Date Prep: 06.01.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	69.8	248	316	99	316	99	90-110	0	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127622	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662991-011	MS Sample Id: 662991-011 S				Date Prep: 06.01.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	105	248	350	99	357	102	90-110	2	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127624	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	662991-021	MS Sample Id: 662991-021 S				Date Prep: 06.01.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	110	250	365	102	358	99	90-110	2	20

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



QC Summary 662991

Tetra Tech- Midland
Bodacious BSM Federal #1H**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number:	3127624	Matrix: Soil						Prep Method: E300P			
Parent Sample Id:	662991-031	MS Sample Id: 662991-031 S						Date Prep: 06.01.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Chloride	92.7	250	333	96	345	101	90-110	4	20	mg/kg	06.01.2020 15:38
Flag											

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127625	Matrix: Soil						Prep Method: E300P			
Parent Sample Id:	662904-001	MS Sample Id: 662904-001 S						Date Prep: 06.01.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Chloride	24.8	249	273	100	268	98	90-110	2	20	mg/kg	06.01.2020 18:25
Flag											

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3127625	Matrix: Soil						Prep Method: E300P			
Parent Sample Id:	662991-041	MS Sample Id: 662991-041 S						Date Prep: 06.01.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Chloride	99.4	251	368	107	370	108	90-110	1	20	mg/kg	06.01.2020 17:15
Flag											

Analytical Method: TPH By SW8015 Mod

Seq Number:	3127485	Matrix: Solid						Prep Method: SW8015P			
MB Sample Id:	7704405-1-BLK	LCS Sample Id: 7704405-1-BKS						Date Prep: 05.29.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	995	100	962	96	70-130	3	20	mg/kg	05.29.2020 22:22
Diesel Range Organics (DRO)	<50.0	1000	924	92	931	93	70-130	1	20	mg/kg	05.29.2020 22:22
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1-Chlorooctane	102		108		108		70-130			%	05.29.2020 22:22
o-Terphenyl	104		94		94		70-130			%	05.29.2020 22:22
Flag											

Analytical Method: TPH By SW8015 Mod

Seq Number:	3127488	Matrix: Solid						Prep Method: SW8015P			
MB Sample Id:	7704403-1-BLK	LCS Sample Id: 7704403-1-BKS						Date Prep: 05.29.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	928	93	960	96	70-130	3	20	mg/kg	05.29.2020 22:22
Diesel Range Organics (DRO)	<50.0	1000	1000	100	1030	103	70-130	3	20	mg/kg	05.29.2020 22:22
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1-Chlorooctane	117		113		118		70-130			%	05.29.2020 22:22
o-Terphenyl	123		114		107		70-130			%	05.29.2020 22:22
Flag											

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



QC Summary 662991

Tetra Tech- Midland
Bodacious BSM Federal #1H**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3127481

MB Sample Id: 7704406-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.29.2020

LCSD Sample Id: 7704406-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1020	102	1050	105	70-130	3	20	mg/kg	05.29.2020 17:08	
Diesel Range Organics (DRO)	<50.0	1000	930	93	971	97	70-130	4	20	mg/kg	05.29.2020 17:08	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane	112		127		129		70-130			%	05.29.2020 17:08	
o-Terphenyl	116		121		123		70-130			%	05.29.2020 17:08	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127485

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.29.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.29.2020 22:01

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127488

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.29.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.29.2020 22:01

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127481

Matrix: Solid

Prep Method: SW8015P

Date Prep: 05.29.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB Result

<50.0

Units Analysis Date Flag

mg/kg 05.29.2020 16:49

Analytical Method: TPH By SW8015 Mod

Seq Number: 3127485

Matrix: Soil

Prep Method: SW8015P

Date Prep: 05.29.2020

Parent Sample Id: 662991-021

MS Sample Id: 662991-021 S

MSD Sample Id: 662991-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	813	82	827	83	70-130	2	20	mg/kg	05.29.2020 23:25	
Diesel Range Organics (DRO)	<49.8	996	811	81	836	84	70-130	3	20	mg/kg	05.29.2020 23:25	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date	
1-Chlorooctane			87		87		70-130			%	05.29.2020 23:25	
o-Terphenyl			73		73		70-130			%	05.29.2020 23:25	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 662991

Tetra Tech- Midland
Bodacious BSM Federal #1H

Analytical Method: TPH By SW8015 Mod

Seq Number:	3127488	Matrix: Soil				Prep Method: SW8015P			
Parent Sample Id:	662991-001	MS Sample Id: 662991-001 S				Date Prep: 05.29.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<49.9	998	906	91	971	97	70-130	7	20
Diesel Range Organics (DRO)	<49.9	998	989	99	1020	102	70-130	3	20
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units
1-Chlorooctane			93		96		70-130		%
o-Terphenyl			85		87		70-130		%

Analytical Method: TPH By SW8015 Mod

Seq Number:	3127481	Matrix: Soil				Date Prep: 05.29.2020			
Parent Sample Id:	662991-041	MS Sample Id: 662991-041 S				MSD Sample Id: 662991-041 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Gasoline Range Hydrocarbons (GRO)	<49.9	998	958	96	970	97	70-130	1	20
Diesel Range Organics (DRO)	<49.9	998	929	93	931	93	70-130	0	20
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units
1-Chlorooctane			113		118		70-130		%
o-Terphenyl			106		103		70-130		%

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127479	Matrix: Solid				Date Prep: 05.30.2020			
MB Sample Id:	7704438-1-BLK	LCS Sample Id: 7704438-1-BKS				LCSD Sample Id: 7704438-1-BSD			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Benzene	<0.00200	0.100	0.103	103	0.0993	99	70-130	4	35
Toluene	<0.00200	0.100	0.108	108	0.105	105	70-130	3	35
Ethylbenzene	<0.00200	0.100	0.102	102	0.0984	98	70-130	4	35
m,p-Xylenes	<0.00400	0.200	0.207	104	0.201	101	70-130	3	35
o-Xylene	<0.00200	0.100	0.103	103	0.0995	100	70-130	3	35
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units
1,4-Difluorobenzene	104		104		102		70-130		%
4-Bromofluorobenzene	104		112		109		70-130		%

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



QC Summary 662991

Tetra Tech- Midland
Bodacious BSM Federal #1H

Analytical Method: BTEX by EPA 8021B

Parameter	MB		Spike		LCS		LCSD		Limits		%RPD	RPD	Units	Analysis Date	Flag
	Result	Amount	Result	%Rec	Result	%Rec	Result	%Rec	Limits	Limit	Limit	Limit	Limit	Limit	
Benzene	<0.00200	0.100	0.103	103	0.0956	96	70-130	7	35	mg/kg	05.30.2020 21:03				
Toluene	<0.00200	0.100	0.109	109	0.101	101	70-130	8	35	mg/kg	05.30.2020 21:03				
Ethylbenzene	<0.00200	0.100	0.102	102	0.0951	95	70-130	7	35	mg/kg	05.30.2020 21:03				
m,p-Xylenes	<0.00400	0.200	0.209	105	0.195	98	70-130	7	35	mg/kg	05.30.2020 21:03				
o-Xylene	<0.00200	0.100	0.103	103	0.0963	96	70-130	7	35	mg/kg	05.30.2020 21:03				
Surrogate		MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units	Analysis Date				
1,4-Difluorobenzene	103			104			103	70-130		%	05.30.2020 21:03				
4-Bromofluorobenzene	103			109			110	70-130		%	05.30.2020 21:03				

Analytical Method: BTEX by EPA 8021B

Parameter	MB		Spike		LCS		LCSD		Limits		%RPD	RPD	Units	Analysis Date	Flag
	Result	Amount	Result	%Rec	Result	%Rec	Result	%Rec	Limits	Limit	Limit	Limit	Limit	Limit	
Benzene	<0.00200	0.100	0.125	125	0.104	104	70-130	18	35	mg/kg	06.01.2020 11:46				
Toluene	<0.00200	0.100	0.125	125	0.100	100	70-130	22	35	mg/kg	06.01.2020 11:46				
Ethylbenzene	<0.00200	0.100	0.123	123	0.0928	93	70-130	28	35	mg/kg	06.01.2020 11:46				
m,p-Xylenes	<0.00400	0.200	0.253	127	0.181	91	70-130	33	35	mg/kg	06.01.2020 11:46				
o-Xylene	<0.00200	0.100	0.122	122	0.0932	93	70-130	27	35	mg/kg	06.01.2020 11:46				
Surrogate		MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units	Analysis Date				
1,4-Difluorobenzene	121			90			105	70-130		%	06.01.2020 11:46				
4-Bromofluorobenzene	73			134	**		129	70-130		%	06.01.2020 11:46				

Analytical Method: BTEX by EPA 8021B

Parameter	Parent		Spike		MS		MS		MSD		%RPD	RPD	Units	Analysis Date	Flag
	Result	Amount	Result	%Rec	Result	%Rec	Result	%Rec	Result	%Rec	Limits	Limit	Limit	Limit	
Benzene	<0.00198	0.0992	0.113	114	0.0996	100	70-130	13	35	mg/kg	05.30.2020 11:11				
Toluene	<0.00198	0.0992	0.118	119	0.105	105	70-130	12	35	mg/kg	05.30.2020 11:11				
Ethylbenzene	<0.00198	0.0992	0.113	114	0.0997	100	70-130	13	35	mg/kg	05.30.2020 11:11				
m,p-Xylenes	<0.00397	0.198	0.229	116	0.203	101	70-130	12	35	mg/kg	05.30.2020 11:11				
o-Xylene	<0.00198	0.0992	0.109	110	0.0979	98	70-130	11	35	mg/kg	05.30.2020 11:11				
Surrogate		MS %Rec	MS Flag	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date				
1,4-Difluorobenzene				106			106	70-130		%	05.30.2020 11:11				
4-Bromofluorobenzene				112			114	70-130		%	05.30.2020 11:11				

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



QC Summary 662991

Tetra Tech- Midland
Bodacious BSM Federal #1H

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127480	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	662991-041	MS Sample Id: 662991-041 S						Date Prep: 05.30.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.0998	0.0922	92	0.0850	86	70-130	8	35	mg/kg	05.30.2020 21:44
Toluene	<0.00200	0.0998	0.0965	97	0.0899	91	70-130	7	35	mg/kg	05.30.2020 21:44
Ethylbenzene	<0.00200	0.0998	0.0904	91	0.0846	85	70-130	7	35	mg/kg	05.30.2020 21:44
m,p-Xylenes	<0.00399	0.200	0.184	92	0.173	87	70-130	6	35	mg/kg	05.30.2020 21:44
o-Xylene	<0.00200	0.0998	0.0907	91	0.0857	86	70-130	6	35	mg/kg	05.30.2020 21:44
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			104		103		70-130			%	05.30.2020 21:44
4-Bromofluorobenzene			113		113		70-130			%	05.30.2020 21:44

Analytical Method: BTEX by EPA 8021B

Seq Number:	3127640	Matrix: Soil						Date Prep: 06.01.2020			
Parent Sample Id:	662991-001	MS Sample Id: 662991-001 S						MSD Sample Id: 662991-001 SD			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00199	0.0996	0.117	117	0.106	106	70-130	10	35	mg/kg	06.01.2020 12:26
Toluene	<0.00199	0.0996	0.118	118	0.102	102	70-130	15	35	mg/kg	06.01.2020 12:26
Ethylbenzene	<0.00199	0.0996	0.113	113	0.0966	97	70-130	16	35	mg/kg	06.01.2020 12:26
m,p-Xylenes	<0.00398	0.199	0.232	117	0.197	99	70-130	16	35	mg/kg	06.01.2020 12:26
o-Xylene	<0.00199	0.0996	0.116	116	0.101	101	70-130	14	35	mg/kg	06.01.2020 12:26
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			143	**	141	**	70-130			%	06.01.2020 12:26
4-Bromofluorobenzene			141	**	138	**	70-130			%	06.01.2020 12:26

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

WV29A1

Page 1 of 5

Client Name: EOG		Site Manager: Brittany Long		
Project Name: Bodacious BSM Federal #1H		Project Location: (county, state) Eddy County, New Mexico		
Invoice to: James Kennedy		Project #: 212C-MD-02190		
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez		
Comments:				
ANALYSIS REQUEST (Circle or Specify Method No.)				
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			
	DATE YEAR: 2020	TIME	WATER SOIL	
		HCL HNO ₃ ICE None	# CONTAINERS	
			FILTERED (Y/N)	
Bottomhole-97 comp 4' Bottomhole-98 comp 4' Bottomhole-99 comp 4' Bottomhole-100 comp 4' Bottomhole-101 comp 4' Bottomhole-102 comp 4' Bottomhole-103 comp 4' Bottomhole-104 comp 4' Bottomhole-113 comp 4' Bottomhole-114 comp 4' Relinquished by: <i>S. J. Sosa</i> Date: Time: Received by: BJM Date: Time: 5/29/2020 Relinquished by: _____ Date: Time: Received by: _____ Date: Time: 5/29/2020 Relinquished by: _____ Date: Time: Received by: _____ Date: Time: 5/29/2020	BTEX 8021B	BTEX 8260B		
				TPH TX1005 (Ext to C35)
				TPH 8015M (GRO - DRO - ORO - MRO)
				PAH 8270C
				Total Metals Ag As Ba Cd Cr Pb Se Hg
				TCLP Metals Ag As Ba Cd Cr Pb Se Hg
				TCLP Volatiles
				TCLP Semi Volatiles
				RCI
				GC/MS Vol. 8260B / 624
				GC/MS Semi. Vol. 8270C/625
				PCB's 8082 / 608
				NORM
				PLM (Asbestos)
				Chloride
				Chloride Sulfate TDS
				General Water Chemistry (see attached list)
				Anion/Cation Balance
			TPH 8015R	
			Hold	
REMARKS: <input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized				
Sample Temperature 1.411.9 <input type="checkbox"/> Special Report Limits or TRRP Report (Circle) HAND DELIVERED FEDEX UPS Tracking #: _____				

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page _____ 2 of 5

Client Name: EOG		Site Manager: Brittany Long		ANALYSIS REQUEST (Circle or Specify Method No.)										
Project Name: Bodacious BSM Federal #1H		Project Location: (county, state) Eddy County, New Mexico		Project #: 212C-MD-02190										
Invoice to: James Kennedy		Receiving Laboratory: Xenco		Comments: Sampler Signature: Devin Dominguez										
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING	MATRIX	PRESERVATIVE METHOD									
	DATE	TIME	YEAR: 2020	WATER	SOIL	HCL	HNO ₃	ICE	None	# CONTAINERS	FILTERED (Y/N)			
Bottomhole-115 comp 4'	5/29/2020		X		X	X				1	N	X	BTEX 8021B	BTEX 8260B
Bottomhole-116 comp 4'	5/29/2020		X		X	X				1	N	X	TPH TX1005 (Ext to C35)	
Bottomhole-117 comp 4'	5/29/2020		X		X	X				1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)	
Bottomhole-118 comp 4'	5/29/2020		X		X	X				1	N	X	PAH 8270C	
Bottomhole-119 comp 4'	5/29/2020		X		X	X				1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-127 comp 4'	5/29/2020		X		X	X				1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-128 comp 4'	5/29/2020		X		X	X				1	N	X	TCLP Volatiles	
Bottomhole-129 comp 4'	5/29/2020		X		X	X				1	N	X	TCLP Semi Volatiles	
Bottomhole-130 comp 4'	5/29/2020		X		X	X				1	N	X	RCI	
Bottomhole-131 comp 4'	5/29/2020		X		X	X				1	N	X	GC/MS Vol. 8260B / 624	
Reinquished by: <i>SLR</i> <i>5/29/2020</i>	Date:	Time:	Received by: <i>BTM</i> <i>5/29/2020</i>	Date:	Time:	LAB USE ONLY	REMARKS:							
Reinquished by: <i>SLR</i> <i>5/29/2020</i>	Date:	Time:	Received by: <i>BTM</i> <i>5/29/2020</i>	Date:	Time:		<input type="checkbox"/>	STANDARD						
Reinquished by: <i>SLR</i> <i>5/29/2020</i>	Date:	Time:	Received by: <i>BTM</i> <i>5/29/2020</i>	Date:	Time:		<input checked="" type="checkbox"/>	RUSH: Same Day 24 hr 48 hr 12 hr						
							<input type="checkbox"/>	Push Charges Authorized						
							<input type="checkbox"/>	Special Report Limits or TRRP Report						
(Circle) HAND DELIVERED / FEDEX UPS Tracking #: _____														

Received by OCD: 2/24/2022 12:25:11 PM

ORIGINAL COPY

Released to Imaging: 12/15/2022 9:54:23 AM

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 West Wall Street, Site 100
Midland, Texas 79701
Tel (432) 682-4859
Fax (432) 682-3946

Page _____ 3 of 5

Client Name: EOG Site Manager: Brittany Long

Project Name: Bodacious BSM Federal #1H

Project Location: (county, state) Eddy County, New Mexico Project #: 212C-MD-02190

Invoice to: James Kennedy

Receiving Laboratory: Xenco Sampler Signature: Devin Dominguez

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			SAMPLING YEAR-2020	MATRIX	PRESERVATIVE METHOD	ANALYSIS REQUEST (Circle or Specify Method No.)		
	DATE	TIME	WATER SOIL HCL HNO ₃ ICE None				# CONTAINERS	FILTERED (Y/N)	
Bottomhole-132 comp 4'	5/29/2020	X	X	1	N	X	BTEX 8021B	BTEX 8260B	
Bottomhole-133 comp 4'	5/29/2020	X	X	1	N	X	TPH TX1005 (Ext to C35)		
Bottomhole-134 comp 4'	5/29/2020	X	X	1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)		
Bottomhole-142 comp 4'	5/29/2020	X	X	1	N	X	PAH 8270C		
Bottomhole-143 comp 4'	5/29/2020	X	X	1	N	X	Total Metals Ag As	Ba Cd Cr Pb Se Hg	
Bottomhole-144 comp 4'	5/29/2020	X	X	1	N	X	TCLP Metals Ag As	Ba Cd Cr Pb Se Hg	
Bottomhole-145 comp 4'	5/29/2020	X	X	1	N	X	TCLP Volatiles		
Bottomhole-146 comp 4'	5/29/2020	X	X	1	N	X	TCLP Semi Volatiles		
Bottomhole-147 comp 4'	5/29/2020	X	X	1	N	X	RCI		
Bottomhole-148 comp 4'	5/29/2020	X	X	1	N	X	GC/MS Vol. 8260B/ 624		
Reinquished by:	Date: 5/29/2020 Time: 15:16	Received by: Date: 5/10/2020 Time: 15:16	LAB USE ONLY	REMARKS:					
Reinquished by:	Date: Time:	Received by: Date: Time:	<input type="checkbox"/> STANDARD	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr					
Reinquished by:	Date: Time:	Received by: Date: Time:	<input type="checkbox"/> Rush Charges Authorized	<input type="checkbox"/> Special Report Limits or TRRP Report					
(Circle) <input checked="" type="checkbox"/> HAND DELIVERED		FEDEX UPS Tracking #:							

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

VWJ991
Page 4 of 5

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

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H	Project #:	212C-MD-02190
Project Location: (county, state)	Eddy County, New Mexico	Invoice to:	
Receiving Laboratory:	James Kennedy Xenco	Sampler Signature:	Devin Dominguez
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B		BTEX 8260B	
		YEAR: 2020	DATE					WATER	SOIL	HCL	HNO ₃
	Bottomhole-149 comp 4'	5/29/2020		X	X	X	N	X	X	X	X
	Bottomhole-156 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-157 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-158 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-159 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-160 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-161 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-162 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-163 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
	Bottomhole-164 comp 4'	5/29/2020		X	X	1	N	X	X	X	X
Relinquished by:	Date: Time: <i>S/da</i>	Received by: Date: Time: <i>BJM</i> S/da 159	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	Sample Temperature						
Relinquished by:	Date: Time:	Received by: Date: Time:									
Relinquished by:	Date: Time:	Received by: Date: Time:									

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

J.911.4

Special Report Limits or TRRP Report

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

10/10/2019

Page _____ 5 of 5

Client Name:	EOG	Site Manager:	Brittany Long
Project Location: (county, state)	Bodacious BSM Federal #1H Eddy County, New Mexico	Project #:	212C-MD-02190
Invoice to:	James Kennedy	Sampler Signature:	Devin Dominguez
Receiving Laboratory:	Xenco	Comments:	

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		DATE YEAR: 2020	TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST	
	MATRIX	PRESERVATIVE METHOD							BTEX 8021B	BTEX 8260B
Bottomhole-171 comp 4'	5/29/2020	X	X	1	N	X	X	X	TPH TX1005 (Ext to C35)	
Bottomhole-172 comp 4'	5/29/2020	X	X	1	N	X	X	X	TPH 8015M (GRO - DRO - ORO - MRO)	
Bottomhole-173 comp 4'	5/29/2020	X	X	1	N	X	X	X	PAH 8270C	
Bottomhole-174 comp 4'	5/29/2020	X	X	1	N	X	X	X	Total Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-175 comp 4'	5/29/2020	X	X	1	N	X	X	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
Bottomhole-176 comp 4'	5/29/2020	X	X	1	N	X	X	X	TCLP Volatiles	
Bottomhole-177 comp 4'	5/29/2020	X	X	1	N	X	X	X	TCLP Semi Volatiles	
Bottomhole-178 comp 4'	5/29/2020	X	X	1	N	X	X	X	RCI	
Bottomhole-179 comp 4'	5/29/2020	X	X	1	N	X	X	X	GC/MS Vol. 8260B	624
									GC/MS Semi. Vol.	8270C/625
									PCB's 8082 / 608	
									NORM	
									PLM (Asbestos)	
									Chloride	
									Chloride Sulfate TDS	
									General Water Chemistry (see attached list)	
									Anion/Cation Balance	
									TPH 8015R	
									Hold	

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	

Received by:	Date: 5/29/2020	Time: 10:10 AM	LAB USE ONLY	Sample Temperature	REMARKS:
Reinstituted by:	Date: 5/29/2020	Time: 10:10 AM	<input type="checkbox"/> STANDARD	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr	72 hr
Reinstituted by:	Date: 5/29/2020	Time: 10:10 AM	<input type="checkbox"/> Rush Charges Authorized		
Received by:	Date: 5/29/2020	Time: 10:10 AM	<input type="checkbox"/> Special Report Limits or TRRP Report		
(Circle) HAND-DELIVERED, FAXED, UPS Tracking #: _____					

ORIGINAL COPY

XENCO Laboratories**Prelogin/Nonconformance Report- Sample Log-In****Client:** Tetra Tech- Midland**Date/ Time Received:** 05.29.2020 03.18.00 PM**Work Order #:** 662991

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R9

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	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:


Brianna Teel
Brianna Teel

Date: 05.29.2020

Checklist reviewed by:

Date: 05.29.2020



Certificate of Analysis Summary 663551

Page 609 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-001 Bottomhole-184-comp 4'	663551-002 Bottomhole-185-comp 4'	663551-003 Bottomhole-186-comp 4'	663551-004 Bottomhole-187-comp 4'	663551-005 Bottomhole-188-comp 4'	663551-006 Bottomhole-189-comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:30 06.06.2020 12:40 mg/kg	06.05.2020 11:30 06.06.2020 13:00 RL	06.05.2020 11:30 06.06.2020 13:21 mg/kg	06.05.2020 11:30 06.06.2020 13:41 RL	06.05.2020 11:30 06.06.2020 14:02 mg/kg	06.05.2020 11:30 06.06.2020 14:22 RL
Benzene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00403 0.00403	<0.00401 0.00401	<0.00404 0.00404	<0.00401 0.00401	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 15:30 06.05.2020 17:57 mg/kg	06.05.2020 15:30 06.05.2020 18:02 RL	06.05.2020 16:00 06.05.2020 18:53 mg/kg	06.05.2020 16:00 06.05.2020 19:08 RL	06.05.2020 16:00 06.05.2020 19:13 mg/kg	06.05.2020 16:00 06.05.2020 19:18 RL
Chloride		274 49.5	294 50.4	181 5.00	207 5.03	181 4.95	202 4.95
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 12:00 06.05.2020 13:21 mg/kg	06.05.2020 12:00 06.05.2020 14:25 RL	06.05.2020 12:00 06.05.2020 14:47 mg/kg	06.05.2020 12:00 06.05.2020 15:08 RL	06.05.2020 12:00 06.05.2020 15:29 mg/kg	06.05.2020 12:00 06.05.2020 15:51 RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.9 49.9	<49.8 49.8

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-007 Bottomhole-195-comp 4'	663551-008 Bottomhole-196-comp 4'	663551-009 Bottomhole-197-comp 4'	663551-010 Bottomhole-198-comp 4'	663551-011 Bottomhole-199-comp 4'	663551-012 Bottomhole-200-comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:30 06.06.2020 14:43 mg/kg	06.05.2020 11:30 06.06.2020 15:03 RL	06.05.2020 11:30 06.06.2020 15:24 mg/kg	06.05.2020 11:30 06.06.2020 15:44 RL	06.05.2020 11:30 06.06.2020 17:08 mg/kg	06.05.2020 11:30 06.06.2020 17:28 RL
Benzene	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	
Toluene	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	
Ethylbenzene	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	
m,p-Xylenes	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	<0.00397 0.00397	<0.00400 0.00400	<0.00402 0.00402	
o-Xylene	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	
Total Xylenes	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	
Total BTEX	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201	
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 16:00 06.05.2020 19:23 mg/kg	06.05.2020 16:00 06.05.2020 19:38 RL	06.05.2020 16:00 06.05.2020 19:44 mg/kg	06.05.2020 16:00 06.05.2020 19:49 RL	06.05.2020 16:00 06.05.2020 19:54 mg/kg	06.05.2020 16:00 06.05.2020 19:59 RL
Chloride	179 4.95	102 5.04	199 4.99	197 4.97	105 4.99	125 5.05	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 12:00 06.05.2020 16:12 mg/kg	06.05.2020 12:00 06.05.2020 16:34 RL	06.05.2020 12:00 06.05.2020 16:55 mg/kg	06.05.2020 12:00 06.05.2020 17:16 RL	06.05.2020 12:00 06.05.2020 17:59 mg/kg	06.05.2020 12:00 06.05.2020 18:20 RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	
Total TPH	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Page 611 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-013 Bottomhole-201-comp 4'	663551-014 Bottomhole-202-comp 4'	663551-015 Bottomhole-203-comp 4'	663551-016 Bottomhole-204-comp 4'	663551-017 Bottomhole-205-comp 4'	663551-018 Bottomhole-206-comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:30 06.06.2020 17:49 mg/kg	06.05.2020 11:30 06.06.2020 18:09 RL	06.05.2020 11:30 06.06.2020 18:30 mg/kg	06.05.2020 11:30 06.06.2020 18:50 RL	06.05.2020 11:30 06.06.2020 19:11 mg/kg	06.05.2020 11:30 06.06.2020 19:31 RL
Benzene		<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Toluene		<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Ethylbenzene		<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
m,p-Xylenes		<0.00402 0.00402	<0.00397 0.00397	<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00396 0.00396
o-Xylene		<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total Xylenes		<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Total BTEX		<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 16:00 06.05.2020 20:04 mg/kg	06.05.2020 16:00 06.05.2020 20:19 RL	06.05.2020 16:00 06.05.2020 20:24 mg/kg	06.05.2020 16:00 06.05.2020 20:39 RL	06.05.2020 16:00 06.05.2020 20:44 mg/kg	06.05.2020 16:00 06.05.2020 20:49 RL
Chloride		100 5.05	97.4 4.99	98.2 4.97	95.7 4.96	99.8 5.04	88.0 5.00
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 12:00 06.05.2020 18:41 mg/kg	06.05.2020 12:00 06.05.2020 19:02 RL	06.05.2020 12:00 06.05.2020 19:23 mg/kg	06.05.2020 12:00 06.05.2020 19:44 RL	06.05.2020 12:00 06.05.2020 20:05 mg/kg	06.05.2020 12:00 06.05.2020 20:26 RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-019 Bottomhole-207-comp 4'	663551-020 Bottomhole-208-comp 4'	663551-021 Bottomhole-209-comp 4'	663551-022 Bottomhole-210-comp 4'	663551-023 Bottomhole-211-comp 4'	663551-024 Bottomhole-212-comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:30 06.06.2020 19:52 mg/kg	06.05.2020 11:30 06.06.2020 20:12 RL	06.05.2020 11:45 06.06.2020 00:51 mg/kg	06.05.2020 11:45 06.06.2020 01:12 RL	06.05.2020 11:45 06.06.2020 01:32 mg/kg	06.05.2020 11:45 06.06.2020 01:53 RL
Benzene	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199
Toluene	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes	<0.00398 0.00398	<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398	<0.00403 0.00403	<0.00398 0.00398	<0.00398 0.00398
o-Xylene	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199
Total BTEX	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 16:00 06.05.2020 20:54 mg/kg	06.05.2020 16:00 06.05.2020 20:59 RL	06.05.2020 16:00 06.05.2020 21:05 mg/kg	06.05.2020 16:00 06.05.2020 21:10 RL	06.05.2020 16:10 06.05.2020 21:40 mg/kg	06.05.2020 16:10 06.05.2020 21:55 RL
Chloride	95.2 5.00	93.7 5.03	102 4.96	98.2 5.00	96.0 4.95	102 5.03	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 12:00 06.05.2020 20:47 mg/kg	06.05.2020 12:00 06.05.2020 21:08 RL	06.05.2020 13:00 06.05.2020 13:21 mg/kg	06.05.2020 13:00 06.05.2020 14:25 RL	06.05.2020 13:00 06.05.2020 14:47 mg/kg	06.05.2020 13:00 06.05.2020 15:08 RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-025 Bottomhole-213-comp 4'	663551-026 Bottomhole-214-comp 4'	663551-027 Bottomhole-215-comp 4'	663551-028 Bottomhole-216-comp 4'	663551-029 Bottomhole-217-comp 4'	663551-030 Bottomhole-218-comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:45 06.06.2020 02:14 mg/kg	06.05.2020 11:45 06.06.2020 02:34 RL	06.05.2020 11:45 06.06.2020 02:55 mg/kg	06.05.2020 11:45 06.06.2020 03:15 RL	06.05.2020 11:45 06.06.2020 03:36 mg/kg	06.05.2020 11:45 06.06.2020 03:56 RL
Benzene	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Toluene	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Ethylbenzene	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
m,p-Xylenes	<0.00398 0.00398	<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399	<0.00401 0.00401	<0.00396 0.00396	<0.00396 0.00396
o-Xylene	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Total Xylenes	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Total BTEX	<0.00199 0.00199	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 16:10 06.05.2020 22:00 mg/kg	06.05.2020 16:10 06.05.2020 22:05 mg/kg	06.05.2020 16:10 06.05.2020 22:10 mg/kg	06.05.2020 16:10 06.05.2020 22:26 mg/kg	06.05.2020 16:10 06.05.2020 22:31 mg/kg	06.05.2020 16:10 06.05.2020 22:36 mg/kg
Chloride	100 4.99	99.2 4.97	203 5.05	113 5.05	238 5.05	107 4.99	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 13:00 06.05.2020 15:29 mg/kg	06.05.2020 13:00 06.05.2020 15:51 mg/kg	06.05.2020 13:00 06.05.2020 16:12 mg/kg	06.05.2020 13:00 06.05.2020 16:34 mg/kg	06.05.2020 13:00 06.05.2020 16:55 mg/kg	06.05.2020 13:00 06.05.2020 17:16 mg/kg
Gasoline Range Hydrocarbons (GRO)	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	
Diesel Range Organics (DRO)	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	
Motor Oil Range Hydrocarbons (MRO)	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	
Total TPH	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Page 614 of 728

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-031 Bottomhole-219-comp 4'	663551-032 Bottomhole-220-comp 4'	663551-033 NSW-8 comp 4'	663551-034 NSW-9 comp 4'	663551-035 NSW-10 comp 4'	663551-036 ESW-9 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:45 06.06.2020 05:20 mg/kg	06.05.2020 11:45 06.06.2020 05:40 RL	06.05.2020 11:45 06.06.2020 06:01 mg/kg	06.05.2020 11:45 06.06.2020 06:22 RL	06.05.2020 11:45 06.06.2020 06:42 mg/kg	06.05.2020 11:45 06.06.2020 07:03 RL
Benzene	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Toluene	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Ethylbenzene	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
m,p-Xylenes	<0.00396 0.00396	<0.00398 0.00398	<0.00404 0.00404	<0.00403 0.00403	<0.00399 0.00399	<0.00398 0.00398	<0.00398 0.00398
o-Xylene	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total Xylenes	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Total BTEX	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00199 0.00199
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 16:10 06.05.2020 22:41 mg/kg	06.05.2020 16:10 06.05.2020 22:46 RL	06.05.2020 16:10 06.05.2020 22:51 mg/kg	06.05.2020 16:10 06.05.2020 23:06 RL	06.05.2020 16:10 06.05.2020 23:11 mg/kg	06.05.2020 16:10 06.05.2020 23:26 RL
Chloride	106 4.97	203 5.03	230 5.00	232 4.96	233 4.99	252 5.04	
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 13:00 06.05.2020 17:59 mg/kg	06.05.2020 13:00 06.05.2020 18:20 RL	06.05.2020 13:00 06.05.2020 18:41 mg/kg	06.05.2020 13:00 06.05.2020 19:02 RL	06.05.2020 13:00 06.05.2020 19:23 mg/kg	06.05.2020 13:00 06.05.2020 19:44 RL
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-037 ESW-10 comp 4'	663551-038 ESW-11 comp 4'	663551-039 WSW-9 comp 4'	663551-040 WSW10 comp 4'	663551-041 WSW-11 comp 4'	663551-042 WSW-12 comp 4'
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:45 06.06.2020 07:23 mg/kg	06.05.2020 11:45 06.06.2020 07:44 RL	06.05.2020 11:45 06.06.2020 08:04 mg/kg	06.05.2020 11:45 06.06.2020 08:25 RL	06.05.2020 11:00 06.07.2020 00:25 mg/kg	06.05.2020 11:00 06.07.2020 00:45 RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399	<0.00400 0.00400	<0.00402 0.00402	<0.00402 0.00402	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.05.2020 16:10 06.05.2020 23:31 mg/kg	06.05.2020 16:10 06.05.2020 23:36 RL	06.05.2020 16:10 06.05.2020 23:41 mg/kg	06.05.2020 16:10 06.05.2020 23:47 RL	06.05.2020 16:10 06.05.2020 23:52 mg/kg	06.05.2020 16:10 06.05.2020 23:57 RL
Chloride		232 4.98	48.6 5.00	200 4.95	50.8 4.95	198 5.03	244 5.00
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 13:00 06.05.2020 20:05 mg/kg	06.05.2020 13:00 06.05.2020 20:26 RL	06.05.2020 13:00 06.05.2020 20:47 mg/kg	06.05.2020 13:00 06.05.2020 21:08 RL	06.05.2020 11:00 06.05.2020 13:14 mg/kg	06.05.2020 11:00 06.05.2020 14:10 RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663551

Tetra Tech- Midland, Midland, TX

Project Name: Bodacious BSM Federal #1H

Project Id: 212C-MD-02190

Date Received in Lab: Fri 06.05.2020 10:07

Contact: Brittany Long

Report Date: 06.11.2020 15:13

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: Field Id: Depth: Matrix: Sampled:	663551-043 WSW-13 comp 4'	663551-044 WSW-14 comp 4'	663551-045 WSW-15 comp 4'	663551-046 WSW-16 comp 4'		
BTEX by EPA 8021B	Extracted: Analyzed: Units/RL:	06.05.2020 11:00 06.07.2020 02:07 mg/kg RL	06.05.2020 11:00 06.07.2020 02:27 mg/kg RL	06.08.2020 17:00 06.09.2020 11:41 mg/kg RL	06.08.2020 17:00 06.09.2020 15:33 mg/kg RL		
Benzene	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200		
Toluene	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200		
Ethylbenzene	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200		
m,p-Xylenes	<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00399 0.00399		
o-Xylene	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200		
Total Xylenes	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200		
Total BTEX	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200		
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	06.08.2020 12:38 06.08.2020 14:13 mg/kg RL	06.08.2020 12:38 06.08.2020 14:34 mg/kg RL	06.08.2020 12:38 06.08.2020 14:41 mg/kg RL	06.08.2020 12:38 06.08.2020 14:47 mg/kg RL		
Chloride	224 49.8	220 49.6	206 49.9	205 49.8			
TPH By SW8015 Mod	Extracted: Analyzed: Units/RL:	06.05.2020 11:00 06.05.2020 14:28 mg/kg RL	06.05.2020 11:00 06.05.2020 14:47 mg/kg RL	06.05.2020 11:00 06.05.2020 15:06 mg/kg RL	06.05.2020 11:00 06.05.2020 15:25 mg/kg RL		
Gasoline Range Hydrocarbons (GRO)	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9			
Diesel Range Organics (DRO)	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9			
Total TPH	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.9 49.9			

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

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

Jessica Kramer
Project Manager



Analytical Report 663551

for

Tetra Tech- Midland

Project Manager: Brittany Long

Bodacious BSM Federal #1H

212C-MD-02190

06.11.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.11.2020

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST
Midland, TX 79701

Reference: XENCO Report No(s): **663551**

Bodacious BSM Federal #1H

Project Address: Eddy County, New Mexico

Brittany Long:

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) 663551. 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. 663551 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 Manager

A Small Business and Minority Company

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



Sample Cross Reference 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottomhole-184-comp 4'	S	06.03.2020 00:00		663551-001
Bottomhole-185-comp 4'	S	06.03.2020 00:00		663551-002
Bottomhole-186-comp 4'	S	06.03.2020 00:00		663551-003
Bottomhole-187-comp 4'	S	06.03.2020 00:00		663551-004
Bottomhole-188-comp 4'	S	06.03.2020 00:00		663551-005
Bottomhole-189-comp 4'	S	06.03.2020 00:00		663551-006
Bottomhole-195-comp 4'	S	06.03.2020 00:00		663551-007
Bottomhole-196-comp 4'	S	06.03.2020 00:00		663551-008
Bottomhole-197-comp 4'	S	06.03.2020 00:00		663551-009
Bottomhole-198-comp 4'	S	06.03.2020 00:00		663551-010
Bottomhole-199-comp 4'	S	06.03.2020 00:00		663551-011
Bottomhole-200-comp 4'	S	06.03.2020 00:00		663551-012
Bottomhole-201-comp 4'	S	06.03.2020 00:00		663551-013
Bottomhole-202-comp 4'	S	06.03.2020 00:00		663551-014
Bottomhole-203-comp 4'	S	06.03.2020 00:00		663551-015
Bottomhole-204-comp 4'	S	06.03.2020 00:00		663551-016
Bottomhole-205-comp 4'	S	06.03.2020 00:00		663551-017
Bottomhole-206-comp 4'	S	06.03.2020 00:00		663551-018
Bottomhole-207-comp 4'	S	06.03.2020 00:00		663551-019
Bottomhole-208-comp 4'	S	06.03.2020 00:00		663551-020
Bottomhole-209-comp 4'	S	06.03.2020 00:00		663551-021
Bottomhole-210-comp 4'	S	06.03.2020 00:00		663551-022
Bottomhole-211-comp 4'	S	06.03.2020 00:00		663551-023
Bottomhole-212-comp 4'	S	06.03.2020 00:00		663551-024
Bottomhole-213-comp 4'	S	06.03.2020 00:00		663551-025
Bottomhole-214-comp 4'	S	06.03.2020 00:00		663551-026
Bottomhole-215-comp 4'	S	06.03.2020 00:00		663551-027
Bottomhole-216-comp 4'	S	06.03.2020 00:00		663551-028
Bottomhole-217-comp 4'	S	06.03.2020 00:00		663551-029
Bottomhole-218-comp 4'	S	06.03.2020 00:00		663551-030
Bottomhole-219-comp 4'	S	06.03.2020 00:00		663551-031
Bottomhole-220-comp 4'	S	06.03.2020 00:00		663551-032
NSW-8 comp 4'	S	06.03.2020 00:00		663551-033
NSW-9 comp 4'	S	06.03.2020 00:00		663551-034
NSW-10 comp 4'	S	06.03.2020 00:00		663551-035
ESW-9 comp 4'	S	06.03.2020 00:00		663551-036
ESW-10 comp 4'	S	06.03.2020 00:00		663551-037
ESW-11 comp 4'	S	06.03.2020 00:00		663551-038
WSW-9 comp 4'	S	06.03.2020 00:00		663551-039
WSW10 comp 4'	S	06.03.2020 00:00		663551-040
WSW-11 comp 4'	S	06.03.2020 00:00		663551-041
WSW-12 comp 4'	S	06.03.2020 00:00		663551-042
WSW-13 comp 4'	S	06.03.2020 00:00		663551-043



Sample Cross Reference 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

WSW-14 comp 4'	S	06.03.2020 00:00	663551-044
WSW-15 comp 4'	S	06.03.2020 00:00	663551-045
WSW-16 comp 4'	S	06.03.2020 00:00	663551-046



CASE NARRATIVE

Client Name: Tetra Tech- Midland
Project Name: Bodacious BSM Federal #1H

Project ID: 212C-MD-02190
Work Order Number(s): 663551

Report Date: 06.11.2020
Date Received: 06.05.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3128171 BTEX by EPA 8021B

Lab Sample ID 663551-021 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 663551-021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3128180 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 663551-043, 663551-046, 663551-045.

Batch: LBA-3128453 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 663551-046.



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-184-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-001

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 15:30

Basis: Wet Weight

Seq Number: 3128156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	274	49.5	mg/kg	06.05.2020 17:57		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 12:00

Basis: Wet Weight

Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	06.05.2020 13:21	
o-Terphenyl	84-15-1	84	%	70-130	06.05.2020 13:21	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-184-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-001

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 12:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 12:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 12:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 12:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 12:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 12:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 12:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	06.06.2020 12:40		
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.06.2020 12:40		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-185-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-002 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128156

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	294	50.4	mg/kg	06.05.2020 18:02		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	78	%	70-130	06.05.2020 14:25		
o-Terphenyl	84-15-1	86	%	70-130	06.05.2020 14:25		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-185-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-002

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.06.2020 13:00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.06.2020 13:00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.06.2020 13:00	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.06.2020 13:00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.06.2020 13:00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.06.2020 13:00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.06.2020 13:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.06.2020 13:00		
4-Bromofluorobenzene	460-00-4	121	%	70-130	06.06.2020 13:00		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-186-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-003 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	5.00	mg/kg	06.05.2020 18:53		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 14:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 14:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 14:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 14:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	06.05.2020 14:47	
o-Terphenyl	84-15-1	84	%	70-130	06.05.2020 14:47	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-186-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-003

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 13:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 13:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 13:21	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.06.2020 13:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 13:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 13:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 13:21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	111	%	70-130	06.06.2020 13:21	
4-Bromofluorobenzene		460-00-4	125	%	70-130	06.06.2020 13:21	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-187-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-004 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	207	5.03	mg/kg	06.05.2020 19:08		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 15:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 15:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 15:08	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 15:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	06.05.2020 15:08	
o-Terphenyl	84-15-1	88	%	70-130	06.05.2020 15:08	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-187-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-004

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.06.2020 13:41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.06.2020 13:41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.06.2020 13:41	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.06.2020 13:41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.06.2020 13:41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.06.2020 13:41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.06.2020 13:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	125	%	70-130	06.06.2020 13:41		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 13:41		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-188-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-005

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:00

Basis: Wet Weight

Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	4.95	mg/kg	06.05.2020 19:13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 12:00

Basis: Wet Weight

Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 15:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 15:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	06.05.2020 15:29	
o-Terphenyl	84-15-1	85	%	70-130	06.05.2020 15:29	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-188-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-005

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 14:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 14:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 14:02	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.06.2020 14:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 14:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 14:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 14:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	06.06.2020 14:02		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 14:02		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-189-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-006

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:00

Basis: Wet Weight

Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	202	4.95	mg/kg	06.05.2020 19:18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 12:00

Basis: Wet Weight

Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 15:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 15:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 15:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 15:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	06.05.2020 15:51	
o-Terphenyl	84-15-1	88	%	70-130	06.05.2020 15:51	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-189-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-006

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.06.2020 14:22	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.06.2020 14:22	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.06.2020 14:22	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.06.2020 14:22	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.06.2020 14:22	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.06.2020 14:22	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.06.2020 14:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.06.2020 14:22		
4-Bromofluorobenzene	460-00-4	124	%	70-130	06.06.2020 14:22		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-195-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-007 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	179	4.95	mg/kg	06.05.2020 19:23		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	06.05.2020 16:12	
o-Terphenyl	84-15-1	85	%	70-130	06.05.2020 16:12	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-195-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-007

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 14:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 14:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 14:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.06.2020 14:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 14:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 14:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 14:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	06.06.2020 14:43		
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.06.2020 14:43		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-196-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-008 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.04	mg/kg	06.05.2020 19:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	06.05.2020 16:34	
o-Terphenyl	84-15-1	87	%	70-130	06.05.2020 16:34	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-196-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-008

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.06.2020 15:03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.06.2020 15:03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.06.2020 15:03	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.06.2020 15:03	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.06.2020 15:03	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.06.2020 15:03	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.06.2020 15:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.06.2020 15:03		
4-Bromofluorobenzene	460-00-4	129	%	70-130	06.06.2020 15:03		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-197-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-009 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	199	4.99	mg/kg	06.05.2020 19:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 16:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 16:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 16:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 16:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	78	%	70-130	06.05.2020 16:55		
o-Terphenyl	84-15-1	86	%	70-130	06.05.2020 16:55		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-197-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-009

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 15:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 15:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 15:24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 15:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 15:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 15:24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 15:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 15:24		
4-Bromofluorobenzene	460-00-4	123	%	70-130	06.06.2020 15:24		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-198-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-010

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:00

Basis: Wet Weight

Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	197	4.97	mg/kg	06.05.2020 19:49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 12:00

Basis: Wet Weight

Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	06.05.2020 17:16	
o-Terphenyl	84-15-1	88	%	70-130	06.05.2020 17:16	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-198-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-010

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.06.2020 15:44	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.06.2020 15:44	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.06.2020 15:44	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.06.2020 15:44	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.06.2020 15:44	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.06.2020 15:44	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.06.2020 15:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	06.06.2020 15:44		
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.06.2020 15:44		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-199-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-011

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:00

Basis: Wet Weight

Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	4.99	mg/kg	06.05.2020 19:54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 12:00

Basis: Wet Weight

Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	06.05.2020 17:59	
o-Terphenyl	84-15-1	94	%	70-130	06.05.2020 17:59	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-199-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-011

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 17:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 17:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 17:08	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.06.2020 17:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 17:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 17:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 17:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	108	%	70-130	06.06.2020 17:08	
4-Bromofluorobenzene		460-00-4	110	%	70-130	06.06.2020 17:08	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-200-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-012 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	125	5.05	mg/kg	06.05.2020 19:59		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 18:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	06.05.2020 18:20	
o-Terphenyl	84-15-1	99	%	70-130	06.05.2020 18:20	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-200-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-012

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.06.2020 17:28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.06.2020 17:28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.06.2020 17:28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.06.2020 17:28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.06.2020 17:28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.06.2020 17:28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.06.2020 17:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	06.06.2020 17:28		
4-Bromofluorobenzene	460-00-4	125	%	70-130	06.06.2020 17:28		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-201-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-013 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	100	5.05	mg/kg	06.05.2020 20:04		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	85	%	70-130	06.05.2020 18:41		
o-Terphenyl	84-15-1	92	%	70-130	06.05.2020 18:41		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-201-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-013

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.06.2020 17:49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.06.2020 17:49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.06.2020 17:49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.06.2020 17:49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.06.2020 17:49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.06.2020 17:49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.06.2020 17:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	122	%	70-130	06.06.2020 17:49		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 17:49		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-202-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-014 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.4	4.99	mg/kg	06.05.2020 20:19		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	06.05.2020 19:02	
o-Terphenyl	84-15-1	87	%	70-130	06.05.2020 19:02	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-202-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-014

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.06.2020 18:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.06.2020 18:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.06.2020 18:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.06.2020 18:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.06.2020 18:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.06.2020 18:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.06.2020 18:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	06.06.2020 18:09		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 18:09		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-203-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-015 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	98.2	4.97	mg/kg	06.05.2020 20:24		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	06.05.2020 19:23	
o-Terphenyl	84-15-1	89	%	70-130	06.05.2020 19:23	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-203-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-015

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 18:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 18:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 18:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 18:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 18:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 18:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 18:30	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 18:30		
4-Bromofluorobenzene	460-00-4	126	%	70-130	06.06.2020 18:30		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-204-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-016 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.7	4.96	mg/kg	06.05.2020 20:39		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	06.05.2020 19:44	
o-Terphenyl	84-15-1	77	%	70-130	06.05.2020 19:44	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-204-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-016

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 18:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 18:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 18:50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.06.2020 18:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 18:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 18:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 18:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	06.06.2020 18:50		
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.06.2020 18:50		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-205-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-017 Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.05.2020 16:00 Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.8	5.04	mg/kg	06.05.2020 20:44		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 12:00 Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	06.05.2020 20:05	
o-Terphenyl	84-15-1	87	%	70-130	06.05.2020 20:05	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-205-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-017

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 19:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 19:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 19:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 19:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 19:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 19:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 19:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.06.2020 19:11		
4-Bromofluorobenzene	460-00-4	115	%	70-130	06.06.2020 19:11		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-206-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-018 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.0	5.00	mg/kg	06.05.2020 20:49		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	06.05.2020 20:26	
o-Terphenyl	84-15-1	81	%	70-130	06.05.2020 20:26	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-206-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-018

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.06.2020 19:31	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.06.2020 19:31	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.06.2020 19:31	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.06.2020 19:31	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.06.2020 19:31	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.06.2020 19:31	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.06.2020 19:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.06.2020 19:31		
4-Bromofluorobenzene	460-00-4	125	%	70-130	06.06.2020 19:31		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-207-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-019 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.2	5.00	mg/kg	06.05.2020 20:54		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	06.05.2020 20:47	
o-Terphenyl	84-15-1	90	%	70-130	06.05.2020 20:47	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-207-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-019

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 19:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 19:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 19:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 19:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 19:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 19:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 19:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	06.06.2020 19:52		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 19:52		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-208-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-020 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.7	5.03	mg/kg	06.05.2020 20:59		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128189

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	06.05.2020 21:08	
o-Terphenyl	84-15-1	94	%	70-130	06.05.2020 21:08	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-208-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-020

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:30

Basis: Wet Weight

Seq Number: 3128170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 20:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 20:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 20:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 20:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 20:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 20:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 20:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.06.2020 20:12		
4-Bromofluorobenzene	460-00-4	125	%	70-130	06.06.2020 20:12		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-209-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-021

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:00

Basis: Wet Weight

Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	4.96	mg/kg	06.05.2020 21:05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 13:00

Basis: Wet Weight

Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 13:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	06.05.2020 13:21	
o-Terphenyl	84-15-1	96	%	70-130	06.05.2020 13:21	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-209-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-021

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 00:51	UX	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 00:51	UX	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 00:51	UX	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.06.2020 00:51	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 00:51	UX	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 00:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 00:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	108	%	70-130	06.06.2020 00:51	
4-Bromofluorobenzene		460-00-4	125	%	70-130	06.06.2020 00:51	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-210-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-022 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128161

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	98.2	5.00	mg/kg	06.05.2020 21:10		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 14:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	06.05.2020 14:25	
o-Terphenyl	84-15-1	100	%	70-130	06.05.2020 14:25	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-210-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-022

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 01:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 01:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 01:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 01:12	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 01:12	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 01:12	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 01:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	06.06.2020 01:12		
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.06.2020 01:12		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-211-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-023 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.0	4.95	mg/kg	06.05.2020 21:40		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	06.05.2020 14:47	
o-Terphenyl	84-15-1	95	%	70-130	06.05.2020 14:47	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-211-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-023

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.06.2020 01:32	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.06.2020 01:32	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.06.2020 01:32	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.06.2020 01:32	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.06.2020 01:32	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.06.2020 01:32	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.06.2020 01:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	06.06.2020 01:32		
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.06.2020 01:32		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-212-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-024

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:10

Basis: Wet Weight

Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.03	mg/kg	06.05.2020 21:55		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 13:00

Basis: Wet Weight

Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 15:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 15:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 15:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 15:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	06.05.2020 15:08	
o-Terphenyl	84-15-1	100	%	70-130	06.05.2020 15:08	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-212-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-024

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 01:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 01:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 01:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 01:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 01:53	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 01:53	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 01:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.06.2020 01:53		
4-Bromofluorobenzene	460-00-4	119	%	70-130	06.06.2020 01:53		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-213-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-025

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:10

Basis: Wet Weight

Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	100	4.99	mg/kg	06.05.2020 22:00		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 13:00

Basis: Wet Weight

Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 15:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 15:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	06.05.2020 15:29	
o-Terphenyl	84-15-1	102	%	70-130	06.05.2020 15:29	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-213-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-025

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 02:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 02:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 02:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 02:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 02:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 02:14	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 02:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	126	%	70-130	06.06.2020 02:14		
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.06.2020 02:14		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-214-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-026

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:10

Basis: Wet Weight

Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.2	4.97	mg/kg	06.05.2020 22:05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 13:00

Basis: Wet Weight

Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 15:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 15:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 15:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 15:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	06.05.2020 15:51	
o-Terphenyl	84-15-1	100	%	70-130	06.05.2020 15:51	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-214-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-026

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 02:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 02:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 02:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 02:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 02:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 02:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 02:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	06.06.2020 02:34		
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.06.2020 02:34		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-215-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-027

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:10

Basis: Wet Weight

Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	203	5.05	mg/kg	06.05.2020 22:10		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 13:00

Basis: Wet Weight

Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 16:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	06.05.2020 16:12	
o-Terphenyl	84-15-1	97	%	70-130	06.05.2020 16:12	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-215-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-027

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.06.2020 02:55	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.06.2020 02:55	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.06.2020 02:55	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	06.06.2020 02:55	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.06.2020 02:55	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.06.2020 02:55	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.06.2020 02:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	06.06.2020 02:55		
1,4-Difluorobenzene	540-36-3	105	%	70-130	06.06.2020 02:55		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-216-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-028 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	5.05	mg/kg	06.05.2020 22:26		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 16:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	06.05.2020 16:34	
o-Terphenyl	84-15-1	100	%	70-130	06.05.2020 16:34	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-216-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-028

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 03:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 03:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 03:15	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.06.2020 03:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 03:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 03:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 03:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	06.06.2020 03:15		
1,4-Difluorobenzene	540-36-3	100	%	70-130	06.06.2020 03:15		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-217-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-029 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	238	5.05	mg/kg	06.05.2020 22:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 16:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 16:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 16:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 16:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	06.05.2020 16:55	
o-Terphenyl	84-15-1	102	%	70-130	06.05.2020 16:55	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-217-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-029

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 03:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 03:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 03:36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.06.2020 03:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 03:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 03:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 03:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	110	%	70-130	06.06.2020 03:36	
4-Bromofluorobenzene		460-00-4	125	%	70-130	06.06.2020 03:36	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-218-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-030 Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.05.2020 16:10 Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	4.99	mg/kg	06.05.2020 22:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 13:00 Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 17:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	06.05.2020 17:16	
o-Terphenyl	84-15-1	101	%	70-130	06.05.2020 17:16	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-218-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-030

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.06.2020 03:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.06.2020 03:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.06.2020 03:56	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.06.2020 03:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.06.2020 03:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.06.2020 03:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.06.2020 03:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	119	%	70-130	06.06.2020 03:56		
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.06.2020 03:56		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-219-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-031

Date Collected: 06.03.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 06.05.2020 16:10

Basis: Wet Weight

Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	4.97	mg/kg	06.05.2020 22:41		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 06.05.2020 13:00

Basis: Wet Weight

Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 17:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	06.05.2020 17:59	
o-Terphenyl	84-15-1	104	%	70-130	06.05.2020 17:59	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-219-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-031

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.06.2020 05:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.06.2020 05:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.06.2020 05:20	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.06.2020 05:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.06.2020 05:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.06.2020 05:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.06.2020 05:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	109	%	70-130	06.06.2020 05:20	
1,4-Difluorobenzene		540-36-3	107	%	70-130	06.06.2020 05:20	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-220-comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-032 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	203	5.03	mg/kg	06.05.2020 22:46		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 18:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	06.05.2020 18:20	
o-Terphenyl	84-15-1	101	%	70-130	06.05.2020 18:20	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **Bottomhole-220-comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-032

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 05:40	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 05:40	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 05:40	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 05:40	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 05:40	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 05:40	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 05:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.06.2020 05:40		
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.06.2020 05:40		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: NSW-8 comp 4' Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-033 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	230	5.00	mg/kg	06.05.2020 22:51		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 18:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	92	%	70-130	06.05.2020 18:41		
o-Terphenyl	84-15-1	97	%	70-130	06.05.2020 18:41		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: NSW-8 comp 4'

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-033

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.06.2020 06:01	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.06.2020 06:01	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.06.2020 06:01	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.06.2020 06:01	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.06.2020 06:01	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.06.2020 06:01	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.06.2020 06:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	06.06.2020 06:01		
1,4-Difluorobenzene	540-36-3	96	%	70-130	06.06.2020 06:01		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: NSW-9 comp 4' Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-034 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	232	4.96	mg/kg	06.05.2020 23:06		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 19:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	06.05.2020 19:02	
o-Terphenyl	84-15-1	95	%	70-130	06.05.2020 19:02	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: NSW-9 comp 4'

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-034

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.06.2020 06:22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.06.2020 06:22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.06.2020 06:22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.06.2020 06:22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.06.2020 06:22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.06.2020 06:22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.06.2020 06:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	06.06.2020 06:22		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 06:22		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: NSW-10 comp 4' Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-035 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.05.2020 16:10 Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	233	4.99	mg/kg	06.05.2020 23:11		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 13:00 Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 19:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	06.05.2020 19:23	
o-Terphenyl	84-15-1	95	%	70-130	06.05.2020 19:23	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: NSW-10 comp 4'

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-035

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 06:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 06:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 06:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.06.2020 06:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 06:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 06:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 06:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.06.2020 06:42		
4-Bromofluorobenzene	460-00-4	117	%	70-130	06.06.2020 06:42		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **ESW-9 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-036 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	252	5.04	mg/kg	06.05.2020 23:26		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 19:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	06.05.2020 19:44	
o-Terphenyl	84-15-1	99	%	70-130	06.05.2020 19:44	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **ESW-9 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-036**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **06.05.2020 11:45**

Basis: **Wet Weight**

Seq Number: **3128171**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.06.2020 07:03	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.06.2020 07:03	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.06.2020 07:03	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.06.2020 07:03	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.06.2020 07:03	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.06.2020 07:03	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.06.2020 07:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.06.2020 07:03		
4-Bromofluorobenzene	460-00-4	129	%	70-130	06.06.2020 07:03		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **ESW-10 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-037 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	232	4.98	mg/kg	06.05.2020 23:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.05.2020 20:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	06.05.2020 20:05	
o-Terphenyl	84-15-1	114	%	70-130	06.05.2020 20:05	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **ESW-10 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-037**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **06.05.2020 11:45**

Basis: **Wet Weight**

Seq Number: **3128171**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 07:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 07:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 07:23	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.06.2020 07:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 07:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 07:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 07:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.06.2020 07:23		
4-Bromofluorobenzene	460-00-4	122	%	70-130	06.06.2020 07:23		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **ESW-11 comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-038 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.6	5.00	mg/kg	06.05.2020 23:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 20:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	06.05.2020 20:26		
o-Terphenyl	84-15-1	115	%	70-130	06.05.2020 20:26		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **ESW-11 comp 4'**

Matrix: Soil

Date Received: 06.05.2020 10:07

Lab Sample Id: 663551-038

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 06.05.2020 11:45

Basis: Wet Weight

Seq Number: 3128171

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 07:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 07:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 07:44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.06.2020 07:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 07:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 07:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 07:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.06.2020 07:44		
4-Bromofluorobenzene	460-00-4	113	%	70-130	06.06.2020 07:44		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-9 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-039 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	200	4.95	mg/kg	06.05.2020 23:41		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 20:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	06.05.2020 20:47	
o-Terphenyl	84-15-1	116	%	70-130	06.05.2020 20:47	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-9 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-039**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **06.05.2020 11:45**

Basis: **Wet Weight**

Seq Number: **3128171**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.06.2020 08:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.06.2020 08:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.06.2020 08:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.06.2020 08:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.06.2020 08:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.06.2020 08:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.06.2020 08:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	06.06.2020 08:04		
4-Bromofluorobenzene	460-00-4	111	%	70-130	06.06.2020 08:04		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW10 comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-040 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	50.8	4.95	mg/kg	06.05.2020 23:47		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Basis: Wet Weight
 Seq Number: 3128191

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 21:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-130	06.05.2020 21:08		
o-Terphenyl	84-15-1	115	%	70-130	06.05.2020 21:08		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW10 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-040**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **06.05.2020 11:45**

Basis: **Wet Weight**

Seq Number: **3128171**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.06.2020 08:25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.06.2020 08:25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.06.2020 08:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.06.2020 08:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.06.2020 08:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.06.2020 08:25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.06.2020 08:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	06.06.2020 08:25		
1,4-Difluorobenzene	540-36-3	98	%	70-130	06.06.2020 08:25		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-11 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-041 Date Collected:06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.05.2020 16:10 Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	198	5.03	mg/kg	06.05.2020 23:52		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 11:00 Basis: Wet Weight
 Seq Number: 3128181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 13:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 13:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 13:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 13:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	06.05.2020 13:14	
o-Terphenyl	84-15-1	108	%	70-130	06.05.2020 13:14	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-11 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-041**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **AMF**

% Moisture:

Analyst: **AMF**

Date Prep: **06.05.2020 11:00**

Basis: **Wet Weight**

Seq Number: **3128180**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.07.2020 00:25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.07.2020 00:25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.07.2020 00:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.07.2020 00:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.07.2020 00:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.07.2020 00:25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.07.2020 00:25	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene		540-36-3	100	%	70-130	06.07.2020 00:25	
4-Bromofluorobenzene		460-00-4	98	%	70-130	06.07.2020 00:25	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-12 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-042 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 06.05.2020 16:10 Basis: Wet Weight
 Seq Number: 3128162

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	244	5.00	mg/kg	06.05.2020 23:57		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 11:00 Basis: Wet Weight
 Seq Number: 3128181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 14:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 14:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 14:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 14:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	06.05.2020 14:10	
o-Terphenyl	84-15-1	112	%	70-130	06.05.2020 14:10	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-12 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-042**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **AMF**

% Moisture:

Analyst: **AMF**

Date Prep: **06.05.2020 11:00**

Basis: **Wet Weight**

Seq Number: **3128180**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.07.2020 00:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.07.2020 00:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.07.2020 00:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.07.2020 00:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.07.2020 00:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.07.2020 00:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.07.2020 00:45	U	1
Surrogate							
1,4-Difluorobenzene	540-36-3	101	%	70-130	06.07.2020 00:45		
4-Bromofluorobenzene	460-00-4	81	%	70-130	06.07.2020 00:45		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-13 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-043 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 06.08.2020 12:38 Basis: Wet Weight
 Seq Number: 3128288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	224	49.8	mg/kg	06.08.2020 14:13		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 11:00 Basis: Wet Weight
 Seq Number: 3128181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 14:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 14:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 14:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 14:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	06.05.2020 14:28	
o-Terphenyl	84-15-1	102	%	70-130	06.05.2020 14:28	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-13 comp 4'**

Matrix: **Soil**

Date Received:06.05.2020 10:07

Lab Sample Id: 663551-043

Date Collected: 06.03.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: **AMF**

% Moisture:

Analyst: **AMF**

Date Prep: 06.05.2020 11:00

Basis: **Wet Weight**

Seq Number: 3128180

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.07.2020 02:07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.07.2020 02:07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.07.2020 02:07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.07.2020 02:07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.07.2020 02:07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.07.2020 02:07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.07.2020 02:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	70-130	06.07.2020 02:07		
4-Bromofluorobenzene	460-00-4	55	%	70-130	06.07.2020 02:07	**	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-14 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-044 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 06.08.2020 12:38 Basis: Wet Weight
 Seq Number: 3128288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	220	49.6	mg/kg	06.08.2020 14:34		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 11:00 Basis: Wet Weight
 Seq Number: 3128181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 14:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	06.05.2020 14:47	
o-Terphenyl	84-15-1	107	%	70-130	06.05.2020 14:47	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-14 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-044**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **AMF**

% Moisture:

Analyst: **AMF**

Date Prep: **06.05.2020 11:00**

Basis: **Wet Weight**

Seq Number: **3128180**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.07.2020 02:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.07.2020 02:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.07.2020 02:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.07.2020 02:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.07.2020 02:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.07.2020 02:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.07.2020 02:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	70	%	70-130	06.07.2020 02:27		
1,4-Difluorobenzene	540-36-3	97	%	70-130	06.07.2020 02:27		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-15 comp 4'** Matrix: **Soil** Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-045 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 06.08.2020 12:38 Basis: Wet Weight
 Seq Number: 3128288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	206	49.9	mg/kg	06.08.2020 14:41		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 11:00 Basis: Wet Weight
 Seq Number: 3128181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.05.2020 15:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.05.2020 15:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.05.2020 15:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.05.2020 15:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	06.05.2020 15:06	
o-Terphenyl	84-15-1	106	%	70-130	06.05.2020 15:06	



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-15 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-045**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **06.08.2020 17:00**

Basis: **Wet Weight**

Seq Number: **3128453**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	06.09.2020 11:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	06.09.2020 11:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	06.09.2020 11:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	06.09.2020 11:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	06.09.2020 11:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	06.09.2020 11:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	06.09.2020 11:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	06.09.2020 11:41		
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.09.2020 11:41		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-16 comp 4'** Matrix: Soil Date Received:06.05.2020 10:07
 Lab Sample Id: 663551-046 Date Collected: 06.03.2020 00:00
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 06.08.2020 12:38 Basis: Wet Weight
 Seq Number: 3128288

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	205	49.8	mg/kg	06.08.2020 14:47		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 06.05.2020 11:00 Basis: Wet Weight
 Seq Number: 3128181

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.05.2020 15:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.05.2020 15:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.05.2020 15:25	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.05.2020 15:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-130	06.05.2020 15:25		
o-Terphenyl	84-15-1	108	%	70-130	06.05.2020 15:25		



Certificate of Analytical Results 663551

Tetra Tech- Midland, Midland, TX

Bodacious BSM Federal #1H

Sample Id: **WSW-16 comp 4'**

Matrix: **Soil**

Date Received: 06.05.2020 10:07

Lab Sample Id: **663551-046**

Date Collected: 06.03.2020 00:00

Analytical Method: **BTEX by EPA 8021B**

Prep Method: **SW5035A**

Tech: **KTL**

% Moisture:

Analyst: **KTL**

Date Prep: **06.08.2020 17:00**

Basis: **Wet Weight**

Seq Number: **3128453**

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.09.2020 15:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.09.2020 15:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.09.2020 15:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.09.2020 15:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.09.2020 15:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.09.2020 15:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.09.2020 15:33	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene		460-00-4	155	%	70-130	06.09.2020 15:33	**
1,4-Difluorobenzene		540-36-3	104	%	70-130	06.09.2020 15:33	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



QC Summary 663551

Tetra Tech- Midland
 Bodacious BSM Federal #1H
Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128156	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704863-1-BLK	LCS Sample Id: 7704863-1-BKS				Date Prep: 06.05.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	251	100	241	96	90-110	4	20
								mg/kg	06.05.2020 15:55

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128161	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704867-1-BLK	LCS Sample Id: 7704867-1-BKS				Date Prep: 06.05.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	248	99	248	99	90-110	0	20
								mg/kg	06.05.2020 18:43

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128162	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704869-1-BLK	LCS Sample Id: 7704869-1-BKS				Date Prep: 06.05.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	251	100	241	96	90-110	4	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128288	Matrix: Solid				Prep Method: E300P			
MB Sample Id:	7704953-1-BLK	LCS Sample Id: 7704953-1-BKS				Date Prep: 06.08.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit
Chloride	<5.00	250	245	98	245	98	90-110	0	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128156	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663591-001	MS Sample Id: 663591-001 S				Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	16.8	249	274	103	265	100	90-110	3	20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128156	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663592-001	MS Sample Id: 663592-001 S				Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	1030	248	1200	69	1210	73	90-110	1	20

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



QC Summary 663551

Tetra Tech- Midland
Bodacious BSM Federal #1H**Analytical Method:** Inorganic Anions by EPA 300/300.1

Seq Number:	3128161	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663551-003	MS Sample Id: 663551-003 S				Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	181	250	418	95	421	96	90-110	1	20
								mg/kg	06.05.2020 18:58

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128161	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663551-013	MS Sample Id: 663551-013 S				Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	100	253	344	96	345	97	90-110	0	20
								mg/kg	06.05.2020 20:09

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128162	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663551-023	MS Sample Id: 663551-023 S				Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	96.0	248	334	96	337	97	90-110	1	20
								mg/kg	06.05.2020 21:45

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128162	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663551-033	MS Sample Id: 663551-033 S				Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	230	250	465	94	471	96	90-110	1	20
								mg/kg	06.05.2020 22:56

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128288	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663551-043	MS Sample Id: 663551-043 S				Date Prep: 06.08.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	224	2490	2680	99	2690	99	90-110	0	20
								mg/kg	06.08.2020 14:20

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number:	3128288	Matrix: Soil				Prep Method: E300P			
Parent Sample Id:	663581-004	MS Sample Id: 663581-004 S				Date Prep: 06.08.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit
Chloride	4820	2510	7280	98	7290	98	90-110	0	20
								mg/kg	06.08.2020 15:56

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



QC Summary 663551

Tetra Tech- Midland
Bodacious BSM Federal #1H

Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Spike Amount	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
			LCS Result	LCS %Rec	LCSD Result	LCSD %Rec						
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1040	104	70-130	6	20	mg/kg	06.05.2020 12:37	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	970	97	70-130	6	20	mg/kg	06.05.2020 12:37	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units		Analysis Date	
1-Chlorooctane	119		130		130		70-130		%		06.05.2020 12:37	
o-Terphenyl	128		128		121		70-130		%		06.05.2020 12:37	

Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Spike Amount	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
			LCS Result	LCS %Rec	LCSD Result	LCSD %Rec						
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	875	88	897	90	70-130	2	20	mg/kg	06.05.2020 12:39	
Diesel Range Organics (DRO)	<50.0	1000	932	93	961	96	70-130	3	20	mg/kg	06.05.2020 12:39	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units		Analysis Date	
1-Chlorooctane	102		98		102		70-130		%		06.05.2020 12:39	
o-Terphenyl	118		94		98		70-130		%		06.05.2020 12:39	

Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Spike Amount	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
			LCS Result	LCS %Rec	LCSD Result	LCSD %Rec						
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	850	85	849	85	70-130	0	20	mg/kg	06.05.2020 12:39	
Diesel Range Organics (DRO)	<50.0	1000	909	91	859	86	70-130	6	20	mg/kg	06.05.2020 12:39	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits		Units		Analysis Date	
1-Chlorooctane	103		106		100		70-130		%		06.05.2020 12:39	
o-Terphenyl	116		112		95		70-130		%		06.05.2020 12:39	

Analytical Method: TPH By SW8015 Mod

Parameter	MB Result	Matrix: Solid				Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
		MB Sample Id: 7704910-1-BLK									
Motor Oil Range Hydrocarbons (MRO)	<50.0								mg/kg	06.05.2020 12:18	

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

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

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

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



QC Summary 663551

Tetra Tech- Midland
Bodacious BSM Federal #1H**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3128189

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.05.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

Analysis
Date

Flag

mg/kg 06.05.2020 12:18

Analytical Method: TPH By SW8015 Mod

Seq Number: 3128191

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.05.2020

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

Analysis
Date

Flag

mg/kg 06.05.2020 12:18

Analytical Method: TPH By SW8015 Mod

Seq Number: 3128181

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.05.2020

Parent Sample Id: 663551-041

MS Sample Id: 663551-041 S

MSD Sample Id: 663551-041 SD

ParameterGasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)

Parent Result

Spike Amount

MS Result

MS %Rec

MSD Result

MSD %Rec

Limits

%RPD

RPD Limit

Units

Analysis Date

Flag

<49.9 997 973 98 912 92 70-130 6 20 mg/kg 06.05.2020 13:32

<49.9 997 933 94 865 87 70-130 8 20 mg/kg 06.05.2020 13:32

Surrogate1-Chlorooctane
o-Terphenyl

MS %Rec

MS Flag

MSD %Rec

MSD Flag

Limits

Units

Analysis Date

Analytical Method: TPH By SW8015 Mod

Seq Number: 3128189

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.05.2020

Parent Sample Id: 663551-001

MS Sample Id: 663551-001 S

MSD Sample Id: 663551-001 SD

ParameterGasoline Range Hydrocarbons (GRO)
Diesel Range Organics (DRO)

Parent Result

Spike Amount

MS Result

MS %Rec

MSD Result

MSD %Rec

Limits

%RPD

RPD Limit

Units

Analysis Date

Flag

<49.9 997 823 83 847 85 70-130 3 20 mg/kg 06.05.2020 13:43

<49.9 997 827 83 892 90 70-130 8 20 mg/kg 06.05.2020 13:43

Surrogate1-Chlorooctane
o-Terphenyl

MS %Rec

MS Flag

MSD %Rec

MSD Flag

Limits

Units

Analysis Date

80 81 70-130 % 06.05.2020 13:43

75 74 70-130 % 06.05.2020 13:43

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



QC Summary 663551

Tetra Tech- Midland
Bodacious BSM Federal #1H**Analytical Method:** TPH By SW8015 Mod

Seq Number: 3128191

Parent Sample Id: 663551-021

Matrix: Soil

MS Sample Id: 663551-021 S

Prep Method: SW8015P

Date Prep: 06.05.2020

MSD Sample Id: 663551-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	792	79	842	85	70-130	6	20	mg/kg	06.05.2020 13:43	
Diesel Range Organics (DRO)	<49.9	997	830	83	819	82	70-130	1	20	mg/kg	06.05.2020 13:43	
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag				Units	Analysis Date	
1-Chlorooctane			91		92		70-130		%	06.05.2020 13:43		
o-Terphenyl			97		98		70-130		%	06.05.2020 13:43		

Analytical Method: BTEX by EPA 8021B

Seq Number: 3128180

MB Sample Id: 7704936-1-BLK

Matrix: Solid

LCS Sample Id: 7704936-1-BKS

Prep Method: SW5035A

Date Prep: 06.05.2020

LCSD Sample Id: 7704936-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.106	106	0.105	105	70-130	1	35	mg/kg	06.06.2020 19:20	
Toluene	<0.00200	0.100	0.100	100	0.104	104	70-130	4	35	mg/kg	06.06.2020 19:20	
Ethylbenzene	<0.00200	0.100	0.102	102	0.107	107	70-130	5	35	mg/kg	06.06.2020 19:20	
m,p-Xylenes	<0.00400	0.200	0.190	95	0.200	100	70-130	5	35	mg/kg	06.06.2020 19:20	
o-Xylene	<0.00200	0.100	0.0921	92	0.0970	97	70-130	5	35	mg/kg	06.06.2020 19:20	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag				Units	Analysis Date	
1,4-Difluorobenzene	90		96		97		70-130		%	06.06.2020 19:20		
4-Bromofluorobenzene	84		103		101		70-130		%	06.06.2020 19:20		

Analytical Method: BTEX by EPA 8021B

Seq Number: 3128170

MB Sample Id: 7704915-1-BLK

Matrix: Solid

LCS Sample Id: 7704915-1-BKS

Prep Method: SW5035A

Date Prep: 06.05.2020

LCSD Sample Id: 7704915-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.100	100	0.109	109	70-130	9	35	mg/kg	06.06.2020 10:36	
Toluene	<0.00200	0.100	0.109	109	0.118	118	70-130	8	35	mg/kg	06.06.2020 10:36	
Ethylbenzene	<0.00200	0.100	0.105	105	0.112	112	70-130	6	35	mg/kg	06.06.2020 10:36	
m,p-Xylenes	<0.00400	0.200	0.215	108	0.229	115	70-130	6	35	mg/kg	06.06.2020 10:36	
o-Xylene	<0.00200	0.100	0.102	102	0.109	109	70-130	7	35	mg/kg	06.06.2020 10:36	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag				Units	Analysis Date	
1,4-Difluorobenzene	106		102		103		70-130		%	06.06.2020 10:36		
4-Bromofluorobenzene	110		108		109		70-130		%	06.06.2020 10:36		

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



QC Summary 663551

Tetra Tech- Midland
Bodacious BSM Federal #1H

Analytical Method: BTEX by EPA 8021B

Seq Number:	3128171	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7704916-1-BLK	LCS Sample Id: 7704916-1-BKS						Date Prep: 06.05.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.0853	85	0.0844	84	70-130	1	35	mg/kg	06.05.2020 22:47
Toluene	<0.00200	0.100	0.0904	90	0.0887	89	70-130	2	35	mg/kg	06.05.2020 22:47
Ethylbenzene	<0.00200	0.100	0.0864	86	0.0844	84	70-130	2	35	mg/kg	06.05.2020 22:47
m,p-Xylenes	<0.00400	0.200	0.173	87	0.168	84	70-130	3	35	mg/kg	06.05.2020 22:47
o-Xylene	<0.00200	0.100	0.0869	87	0.0841	84	70-130	3	35	mg/kg	06.05.2020 22:47
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene	108		104		104		70-130			%	06.05.2020 22:47
4-Bromofluorobenzene	110		105		102		70-130			%	06.05.2020 22:47

Analytical Method: BTEX by EPA 8021B

Seq Number:	3128453	Matrix: Solid						Prep Method: SW5035A			
MB Sample Id:	7705003-1-BLK	LCS Sample Id: 7705003-1-BKS						Date Prep: 06.08.2020			
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.0952	95	0.0951	95	70-130	0	35	mg/kg	06.09.2020 08:33
Toluene	<0.00200	0.100	0.0987	99	0.0993	99	70-130	1	35	mg/kg	06.09.2020 08:33
Ethylbenzene	<0.00200	0.100	0.0927	93	0.0932	93	70-130	1	35	mg/kg	06.09.2020 08:33
m,p-Xylenes	<0.00400	0.200	0.186	93	0.187	94	70-130	1	35	mg/kg	06.09.2020 08:33
o-Xylene	<0.00200	0.100	0.0887	89	0.0899	90	70-130	1	35	mg/kg	06.09.2020 08:33
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene	109		104		105		70-130			%	06.09.2020 08:33
4-Bromofluorobenzene	98		100		106		70-130			%	06.09.2020 08:33

Analytical Method: BTEX by EPA 8021B

Seq Number:	3128180	Matrix: Soil						Prep Method: SW5035A			
Parent Sample Id:	663283-034	MS Sample Id: 663283-034 S						Date Prep: 06.05.2020			
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00199	0.0996	0.0838	84	0.0360	36	70-130	80	35	mg/kg	06.06.2020 20:01 XF
Toluene	<0.00199	0.0996	0.0423	42	0.0168	17	70-130	86	35	mg/kg	06.06.2020 20:01 XF
Ethylbenzene	<0.00199	0.0996	0.0466	47	0.0195	20	70-130	82	35	mg/kg	06.06.2020 20:01 XF
m,p-Xylenes	<0.00398	0.199	0.0751	38	0.0307	16	70-130	84	35	mg/kg	06.06.2020 20:01 XF
o-Xylene	<0.00199	0.0996	0.0450	45	0.0248	25	70-130	58	35	mg/kg	06.06.2020 20:01 XF
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits			Units	Analysis Date
1,4-Difluorobenzene			108		96		70-130			%	06.06.2020 20:01
4-Bromofluorobenzene			85		81		70-130			%	06.06.2020 20:01

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

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

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

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



QC Summary 663551

Tetra Tech- Midland
Bodacious BSM Federal #1H**Analytical Method:** BTEX by EPA 8021B

Seq Number:	3128170	Matrix: Soil						Prep Method:	SW5035A		
Parent Sample Id:	663551-001	MS Sample Id: 663551-001 S						Date Prep:	06.05.2020		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.100	0.117	117	0.0934	94	70-130	22	35	mg/kg	06.06.2020 11:17
Toluene	<0.00200	0.100	0.122	122	0.0949	95	70-130	25	35	mg/kg	06.06.2020 11:17
Ethylbenzene	<0.00200	0.100	0.114	114	0.0860	87	70-130	28	35	mg/kg	06.06.2020 11:17
m,p-Xylenes	<0.00401	0.200	0.230	115	0.173	87	70-130	28	35	mg/kg	06.06.2020 11:17
o-Xylene	<0.00200	0.100	0.108	108	0.0816	82	70-130	28	35	mg/kg	06.06.2020 11:17
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene			106		105		70-130		%	06.06.2020 11:17	
4-Bromofluorobenzene			114		104		70-130		%	06.06.2020 11:17	

Analytical Method: BTEX by EPA 8021B

Seq Number:	3128171	Matrix: Soil						Date Prep:	06.05.2020		
Parent Sample Id:	663551-021	MS Sample Id: 663551-021 S						MSD Sample Id:	663551-021 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00200	0.0998	0.0553	55	0.0403	41	70-130	31	35	mg/kg	06.05.2020 23:28
Toluene	<0.00200	0.0998	0.0623	62	0.0475	48	70-130	27	35	mg/kg	06.05.2020 23:28
Ethylbenzene	<0.00200	0.0998	0.0616	62	0.0475	48	70-130	26	35	mg/kg	06.05.2020 23:28
m,p-Xylenes	<0.00399	0.200	0.126	63	0.101	51	70-130	22	35	mg/kg	06.05.2020 23:28
o-Xylene	<0.00200	0.0998	0.0647	65	0.0529	53	70-130	20	35	mg/kg	06.05.2020 23:28
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene			106		104		70-130		%	06.05.2020 23:28	
4-Bromofluorobenzene			113		124		70-130		%	06.05.2020 23:28	

Analytical Method: BTEX by EPA 8021B

Seq Number:	3128453	Matrix: Soil						Date Prep:	06.08.2020		
Parent Sample Id:	663258-001	MS Sample Id: 663258-001 S						MSD Sample Id:	663258-001 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	<0.00199	0.0996	0.104	104	0.106	106	70-130	2	35	mg/kg	06.09.2020 09:14
Toluene	<0.00199	0.0996	0.103	103	0.103	103	70-130	0	35	mg/kg	06.09.2020 09:14
Ethylbenzene	<0.00199	0.0996	0.0940	94	0.0906	91	70-130	4	35	mg/kg	06.09.2020 09:14
m,p-Xylenes	<0.00398	0.199	0.187	94	0.181	91	70-130	3	35	mg/kg	06.09.2020 09:14
o-Xylene	<0.00199	0.0996	0.0907	91	0.0878	88	70-130	3	35	mg/kg	06.09.2020 09:14
Surrogate			MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits		Units	Analysis Date	
1,4-Difluorobenzene			106		107		70-130		%	06.09.2020 09:14	
4-Bromofluorobenzene			104		110		70-130		%	06.09.2020 09:14	

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

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

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

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

Client Name:
ECGProject Name:
Bodacious BSM Federal #1HProject Location:
(county, state)
Eddy County, New Mexico

Invoice to:

James Kennedy

Receiving Laboratory:

Xenco

Comments:

Site Manager:
Brittany Long901 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

ANALYSIS REQUEST

(Circle or Specify Method No.)

1003551

Page _____ 1 of 5

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING YEAR: 2020	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST	
	DATE	TIME						WATER	SOIL
Bottomhole-184 comp 4'	6/3/2020		X	X		1	N	X	BTEX 8021B
Bottomhole-185 comp 4'	6/3/2020		X		X	1	N	X	TPH TX1005 (Ext to C35)
Bottomhole-186 comp 4'	6/3/2020		X		X	1	N	X	TPH 8015M (GRO DRO - ORO - MRO)
Bottomhole-187 comp 4'	6/3/2020		X		X	1	N	X	PAH 8270C
Bottomhole-188 comp 4'	6/3/2020		X		X	1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
Bottomhole-189 comp 4'	6/3/2020		X		X	1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
Bottomhole-195 comp 4'	6/3/2020		X		X	1	N	X	TCLP Volatiles
Bottomhole-196 comp 4'	6/3/2020		X		X	1	N	X	TCLP Semi Volatiles
Bottomhole-197 comp 4'	6/3/2020		X		X	1	N	X	RCI
Bottomhole-198 comp 4'	6/3/2020		X		X	1	N	X	GC/MS Vol. 8260B / 624
									GC/MS Semi. Vol. 8270C/625
									PCBs 8082 / 608
									NORM
									PLM (Asbestos)
									Chloride
									Chloride Sulfate TDS
									General Water Chemistry (see attached list)
									Anion/Cation Balance
									TPH 8015R
									Hold
Relinquished by:	<i>JOS</i>	Date: Time:	Received by:	<i>BSL</i>	Date: Time:	LAB USE ONLY	REMARKS:	STANDARD	
Relinquished by:	<i>JOS</i>	Date: Time:	Received by:	<i>BSL</i>	Date: Time:		<input checked="" type="checkbox"/>	RUSH: Same Day 24 hr 48 hr 72 hr	
Relinquished by:	<i>JOS</i>	Date: Time:	Received by:	<i>BSL</i>	Date: Time:		<input type="checkbox"/>	Rush Charges Authorized	
							<input type="checkbox"/>	Special Report Limits or TRRP Report	
(Circle) AND DELIVERED FEDEX UPS Tracking #: _____									

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Page 2 of 5



Tetra Tech, Inc.

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

1003551

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H		
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-MD-02190
Invoice to:	James Kennedy		
Receiving Laboratory:	Xenco	Sampler Signature:	Devin Dominguez
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			SAMPLING YEAR: 2020	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST	
	DATE	TIME	WATER SOIL		HCL HNO ₃	ICE None			BTEX 8021B	BTEX 8260B
Bottomhole-199 comp 4'	6/3/2020		X		X	X	1	N	X	TPH TX1005 (Ext to C35)
Bottomhole-200 comp 4'	6/3/2020		X		X	X	1	N	X	TPH 8015M (GRO - DRO - ORO - MRO)
Bottomhole-201 comp 4'	6/3/2020		X		X	X	1	N	X	PAH 8270C
Bottomhole-202 comp 4'	6/3/2020		X		X	X	1	N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
Bottomhole-203 comp 4'	6/3/2020		X		X	X	1	N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
Bottomhole-204 comp 4'	6/3/2020		X		X	X	1	N	X	TCLP Volatiles
Bottomhole-205 comp 4'	6/3/2020		X		X	X	1	N	X	TCLP Semi Volatiles
Bottomhole-206 comp 4'	6/3/2020		X		X	X	1	N	X	RCI
Bottomhole-207 comp 4'	6/3/2020		X		X	X	1	N	X	GC/MS Vol. 8260B / 624
Bottomhole-208 comp 4'	6/3/2020		X		X	X	1	N	X	GC/MS Semi. Vol. 8270C/625
										PCB's 8082 / 608
										NORM
										PLM (Asbestos)
										Chloride
										Chloride Sulfate TDS
										General Water Chemistry (see attached list)
										Anion/Cation Balance
										TPH 8015R
										Hold

Relinquished by: 	Date: 6/3/2020	Time: Time:	Received by: 	Date: 6/3/2020	Time: Time:	LAB USE ONLY	REMARKS:	STANDARD
Relinquisched by:			Received by:			<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr (24 hr)	<input type="checkbox"/> Rush Charges Authorized	<input type="checkbox"/> Special Report Limits or TRAP Report
Relinquished by:			Received by:			<input checked="" type="checkbox"/> Hand Delivered	<input checked="" type="checkbox"/> FEDEX	UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

Page _____ 3 of 5

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

Vol 3551

Client Name:	EOG	Site Manager:	Brittany Long
Project Name:	Bodacious BSM Federal #1H		
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-MD-02190
Invoice to:	James Kennedy		
Receiving Laboratory:	Xenco	Sampler Signature:	Devin Dominguez
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)			
		DATE	TIME					WATER	SOIL	HCL	HNO ₃
	Bottomhole-209 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-210 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-211 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-212 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-213 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-214 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-215 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-216 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-217 comp 4'	6/3/2020		X	X	1	N	X	X		
	Bottomhole-218 comp 4'	6/3/2020		X	X	1	N	X	X		

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

Received by:	Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY	REMARKS:
Received by:	Date:	Time:	Received by:	Date:	Time:		<input type="checkbox"/> STANDARD
Received by:	Date:	Time:	Received by:	Date:	Time:		<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
Received by:	Date:	Time:	Received by:	Date:	Time:		<input type="checkbox"/> Rush Charges Authorized
Received by:	Date:	Time:	Received by:	Date:	Time:		<input type="checkbox"/> Special Report Limits or TRRP Report
(Circle) <input checked="" type="checkbox"/> HAND DELIVERED <input type="checkbox"/> FEDEX UPS Tracking #: _____							

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page _____ of 5

ANALYSIS REQUEST

(Circle or Specify Method No.)

Client Name: EOG Site Manager: Brittany Long
Project Name: Bodacious BSM Federal #1H

Project Location: (county, state) Eddy County, New Mexico Project #: 212C-MD-02190
Invoice to: James Kennedy

Receiving Laboratory: Xenco Sampler Signature: Devin Dominguez
Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING YEAR: 2020 DATE	MATRIX WATER SOIL	PRESERVATIVE METHOD HCL HNO ₃ ICE None	# CONTAINERS 1 N	FILTERED (Y/N) X X	ANALYSIS REQUEST							
								BTEX 8021B							
								TPH TX1005 (Ext to C35)							
Bottomhole-219 comp 4'			6/3/2020	X	X	1	N	X	X	TPH 8015M (GRO DRO - ORO - MRO)					
Bottomhole-220 comp 4'			6/3/2020	X	X	1	N	X	X	PAH 8270C					
NSW-8 comp 4'			6/3/2020	X	X	1	N	X	X	Total Metals Ag As Ba Cd Cr Pb Se Hg					
NSW-9 comp 4'			6/3/2020	X	X	1	N	X	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg					
NSW-10 comp 4'			6/3/2020	X	X	1	N	X	X	TCLP Volatiles					
ESW-9 comp 4'			6/3/2020	X	X	1	N	X	X	TCLP Semi Volatiles					
ESW-10 comp 4'			6/3/2020	X	X	1	N	X	X	RCI					
ESW-11 comp 4'			6/3/2020	X	X	1	N	X	X	GC/MS Vol. 8260B 624					
WSW-9 comp 4'			6/3/2020	X	X	1	N	X	X	GC/MS Semi. Vol. 8270C/625					
WSW-10 comp 4'			6/3/2020	X	X	1	N	X	X	PCB's 8082 / 608					
Relinquished by:	Date: 6/5/2020	Time: 10:51 AM	Received by: 6/5/2020	Date: 6/5/2020	Time: 10:51 AM	LAB USE ONLY	REMARKS:	STANDARD	RUSH: Same Day 24 hr 48 hr 72 hr						
Relinquished by:	Date:	Time:	Received by:	Date:	Time:				Rush Charges Authorized						
Relinquished by:	Date:	Time:	Received by:	Date:	Time:				Special Report Limits or TARRP Report						

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

Page _____ 5 of 5

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

Site Manager: Brittany Long

Client Name: EOG
Project Name: Bodacious BSM Federal #1H

Project Location: (county, state)
Eddy County, New Mexico
Invoice to:
James Kennedy
Receiving Laboratory:
Xenco
Comments:

Project #: 212C-MD-02190
Sampler Signature: Devin Dominguez

ANALYSIS REQUEST
(Circle or Specify Method No.)

100351

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			DATE YEAR-2020	TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONTAINERS	FILTERED (Y/N)	SAMPLING		MATRIX	PRESERVATIVE METHOD	ANALYSIS REQUEST			
WSW-11 comp 4'	6/3/2020	X	X	1	N	X	X	BTEX 8021B	BTEX 8260B								
WSW-12 comp 4'	6/3/2020	X	X	1	N	X	X	TPH TX1005 (Ext to C35)									
WSW-13 comp 4'	6/3/2020	X	X	1	N	X	X	TPH 8015M (GRO)	DRO - ORO - MRO								
WSW-14 comp 4'	6/3/2020	X	X	1	N	X	X	PAH 8270C									
WSW-15 comp 4'	6/3/2020	X	X	1	N	X	X	Total Metals Ag As Ba Cd Cr Pb Se Hg									
WSW-16 comp 4'	6/3/2020	X	X	1	N	X	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg									
								TCLP Volatiles									
								TCLP Semi Volatiles									
								RCI									
								GC/MS Vol. 8260B	624								
								GC/MS Semi. Vol. 8270C/625									
								PCB's 8082 / 608									
								NORM									
								PLM (Asbestos)									
								Chloride									
								Chloride Sulfate	TDS								
								General Water Chemistry (see attached list)									
								Anion/Cation Balance									
								TPH 8015R									
								Hold									
Reinquished by:	Date: 6/15/20	Time: 10:00	Received by: JES	Date: 6/15	Time: 10:00	LAB USE ONLY	REMARKS:	<input type="checkbox"/> STANDARD									
Reinquished by:	Date:	Time:	Received by:	Date:	Time:	Sample Temperature	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr	<input type="checkbox"/> Rush Charges Authorized									
Reinquished by:	Date:	Time:	Received by:	Date:	Time:	JES	<input type="checkbox"/> Special Report Limits or TRRP Report										
(Circle Hand DELIVERED FedEx UPS Tracking #:																	

ORIGINAL COPY

XENCO Laboratories**Prelogin/Nonconformance Report- Sample Log-In****Client:** Tetra Tech- Midland**Date/ Time Received:** 06.05.2020 10.07.00 AM**Work Order #:** 663551**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)?	.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes BTEX was in bulk container
#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**

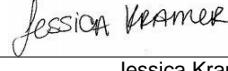
Analyst:

PH Device/Lot#:

Checklist completed by:

 Brianna Teel

Date: 06.05.2020

Checklist reviewed by:

 Jessica Kramer

Date: 06.05.2020

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 83990

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 83990
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/15/2022