

SITE INFORMATION

Report Type: Closure Report

General Site Information:

Site:	Goldeneye 18 Federal Com #001H					
Company:	COG Operating LLC					
Section, Township and Range	Unit P	Sec. 12	T 24S	R 31E		
County:	Lea County					
GPS:	32.224747			-103.723299		
Surface Owner:	Federal					

Release Data:

Date Released:	10/15/2019
Type Release:	Produced Water
Source of Contamination:	Flowline
Fluid Released:	200 bbl water
Fluids Recovered:	150 bbls water

Official Communication:

Name:	Ike Tavaréz		Mike Carmona
Company:	COG Operating, LLC		Tetra Tech
Address:	One Concho Center		901 West Wall Street
	600 W. Illinois Ave.		Suite 100
City:	Midland Texas, 79701		Midland, Texas
Phone number:	(432) 686-3023		(432) 687-8121
Fax:	(432) 684-7137		
Email:	itavarez@concho.com		Mike.carmona@tetrattech.com

Site Characterization

Depth to Groundwater:	>50' bgs
Karst	Low

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	2,500 mg/kg	10,000 mg/kg



November 24, 2020

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

Re: Closure Report for the COG Operating, LLC, Goldeneye 18 Federal Com #1H, Unit P, Section 12, Township 24 South, Range 31 East, Lea County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating, LLC (COG), to assess a release that occurred at the Goldeneye 18 Federal Com #1H, Unit P, Section 12, Township 24 South, Range 31 East, Lea County, New Mexico (Site). The spill site coordinates are 32.224747°, -103.723299°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 15, 2019, and released approximately 200 barrels of produced water due to a damaged flowline. A vacuum truck was dispatched to remove all freestanding fluids, recovering approximately 150 barrels of produced water. The flowline was running along the edge of Buck Jackson Road when it was damaged. The release impacted the area along the road bar ditch and in the pasture, impacting areas measuring 820' long with widths ranging from 12'-80'. The initial C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site, and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, water courses, or floodplains are located within the specified distances. The site is located in a low karst potential area. No water wells were listed within Section 12 on the New Mexico Office of the State Engineer's (NMOSE) database, the Geology and Groundwater Resources of Eddy County (Report 3), or the USGS National Water Information Database. The nearest well is listed in Section 2 on the NMOSE Database, approximately 2.26 miles northwest of the site, and has a reported depth to groundwater of 160' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

901 W Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

**TETRA TECH**

Depth to Water Determination

On August 3, 2020, Scarborough Drilling, Inc was onsite to drill a groundwater determination bore to 55' below ground surface, and within a ½ mile radius of the location. The borehole was left open for 72 hours and checked for the presence of groundwater. No water was detected at 55' below surface. The coordinates are 32.232309 -103.721057. The driller's log is shown 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 (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. 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, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. Additionally, the site is located in a low karst potential area. 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 on the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 10,000 mg/kg.

Soil Assessment and Analytical Results

Initial Assessment

On December 11, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of thirteen trenches (T-1 through T-13) were installed in the release footprint to total depths ranging from 0-1' to 5.0' below surface. Deeper samples could not be collected due to a dense formation in the area. Soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples collected showed benzene, total BTEX, or TPH concentrations above the laboratory reporting limits. However, the areas of T-2 through T-12 showed elevated chloride concentrations in the shallow soils, with concentrations highs of 7,230 mg/kg, 9,110 mg/kg, 8,480 mg/kg, 3,400 mg/kg, 10,400 mg/kg, 8,420 mg/kg, 9,060 mg/kg, 16,000 mg/kg, 6,970 mg/kg, 8,400 mg/kg, and 734 mg/kg at depths ranging from 0-1.0' to 4.0' below surface, respectively.

**TETRA TECH**

Remediation Activities and Confirmation Sampling

Before remediation, the Oxy and Solaris pipelines were spotted using a hydro-vac to clear the area for safety concerns.

To remove the chloride impacted soils above the reclamation standard and RRAL, Tetra Tech personnel were onsite from September 1, 2020, through September 26, 2020, to supervise the remediation activities and collect confirmation samples. The areas of trenches (T-2, T-3, T-4, and T-8) were excavated to depths of 3.0'-3.5' below surface. The areas of trenches (T-5, T-7, T-9, and T-10) were excavated to depths of 2.0'-2.5' below surface, and the areas of Trenches (T-6, T-11, T-12, and T-13) was excavated to the depth of 4.0' below surface. The area regarding a pad entrance was excavated to 6" below surface.

A total of forty-nine (49) bottom hole samples were collected (BottomHole-1 through BottomHole-49), and sixty (60) sidewall samples (Sidewall-1 through Sidewall-60) were collected every 200 square feet to ensure proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 2. The excavation depths and confirmation sample locations are shown on Figure 4.

Referring to Table 2, none of the confirmation samples showed TPH, benzene, and total BTEX above the laboratory reporting limits. Additionally, all confirmation samples showed chloride concentrations below the reclamation standard of <600 mg/kg and the below RRAL of <10,000 mg/kg. Approximately 1,140 cubic yards of material were excavated and transported offsite for proper disposal. The area was then backfilled with clean material to surface grade.

Conclusion

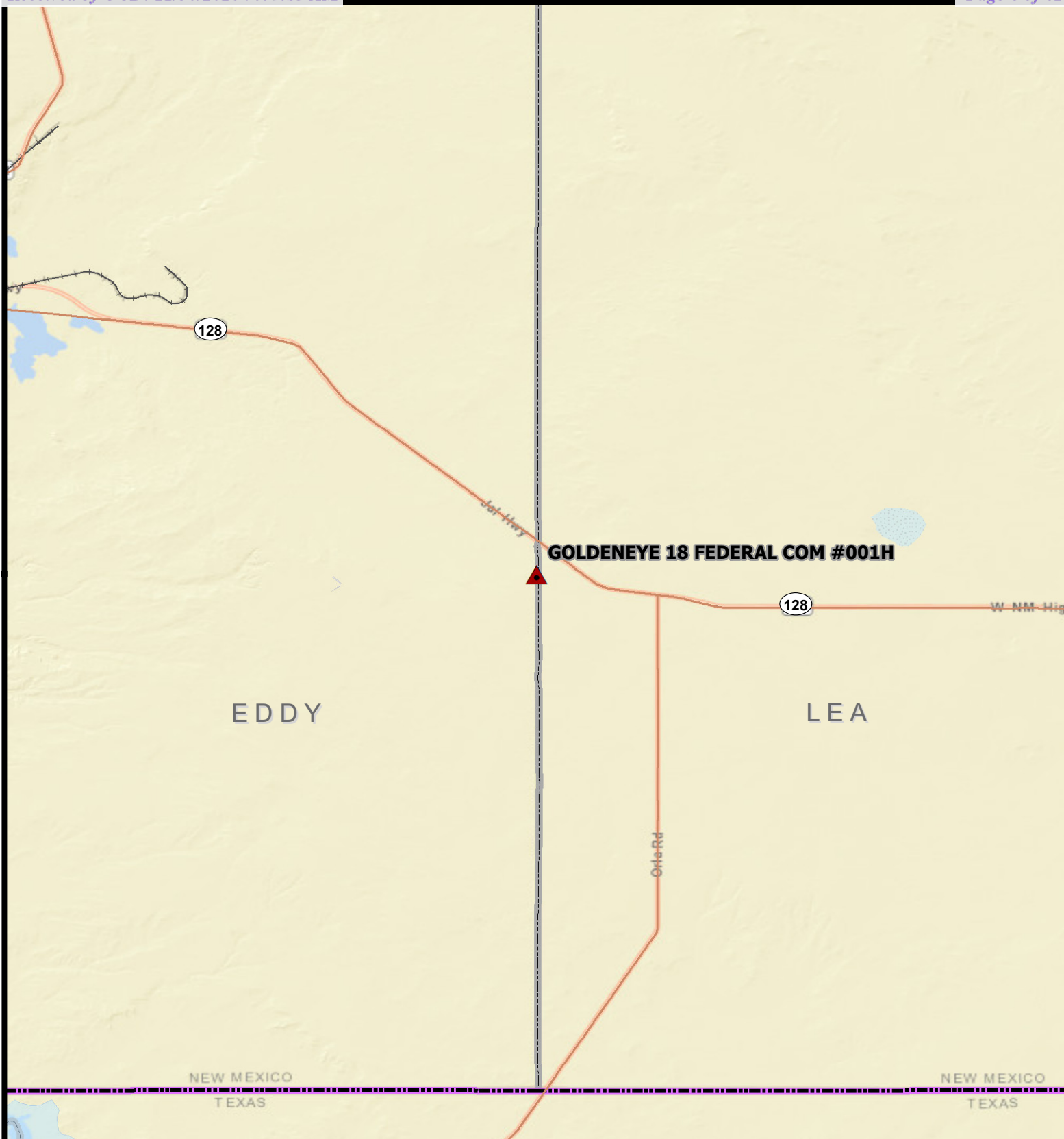
Based on the laboratory results and remediation activities performed, COG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

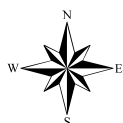
A handwritten signature in black ink, appearing to read 'Mike Carmona'.

Mike Carmona
Geologist

Figures



SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet

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



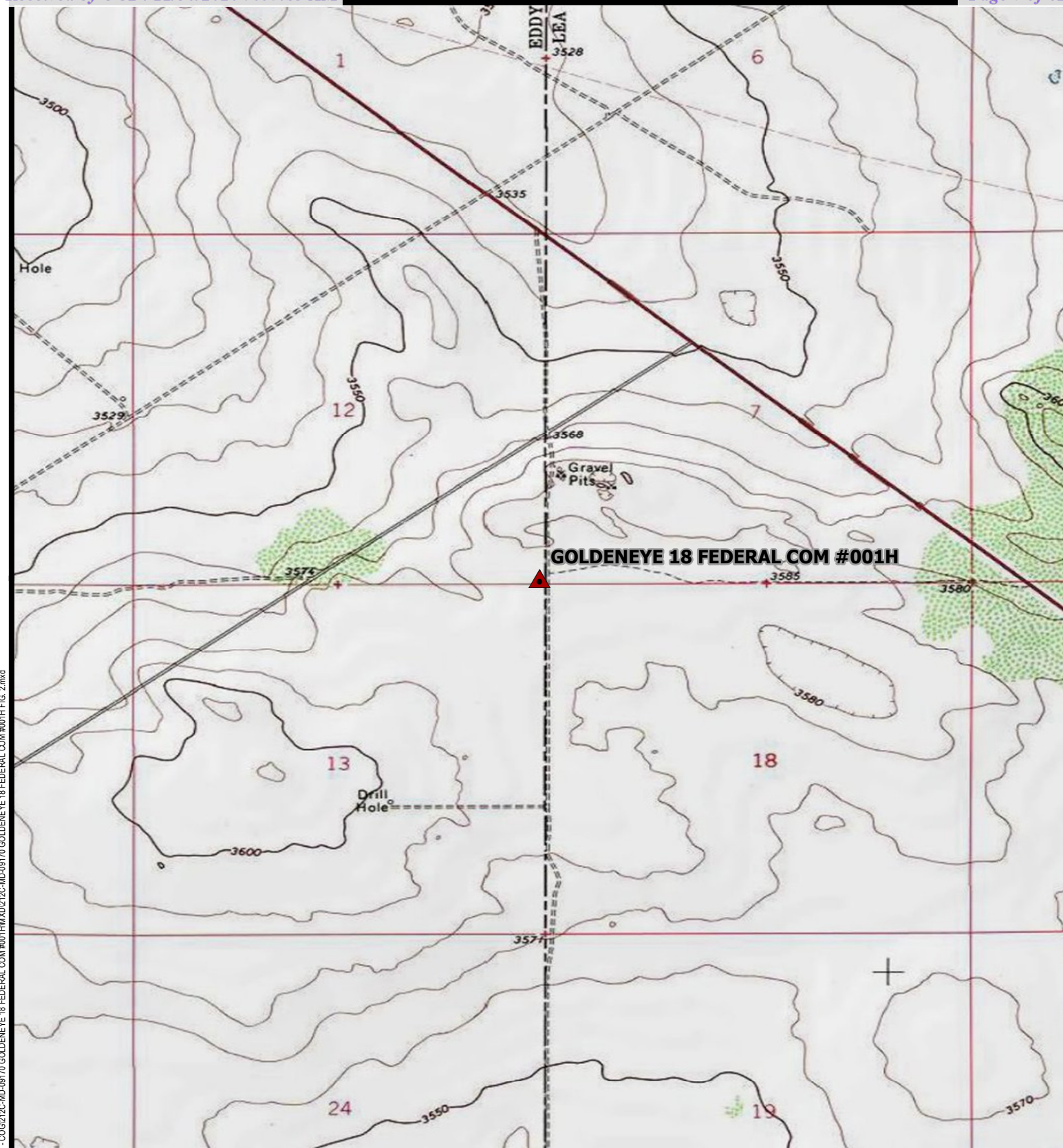
STATE LOCATOR MAP

TOPOGRAPHIC MAP
 GOLDENEYE 18 FEDERAL COM #001H
 Property Located at coordinates 32.224747°,-103.723299°
 EDDY COUNTY, NEW MEXICO

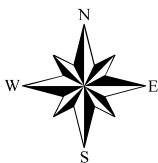


Project #:
 212C-MD-01970
 Date: 12-09-2019

FIGURE
 1



SITE LOCATION



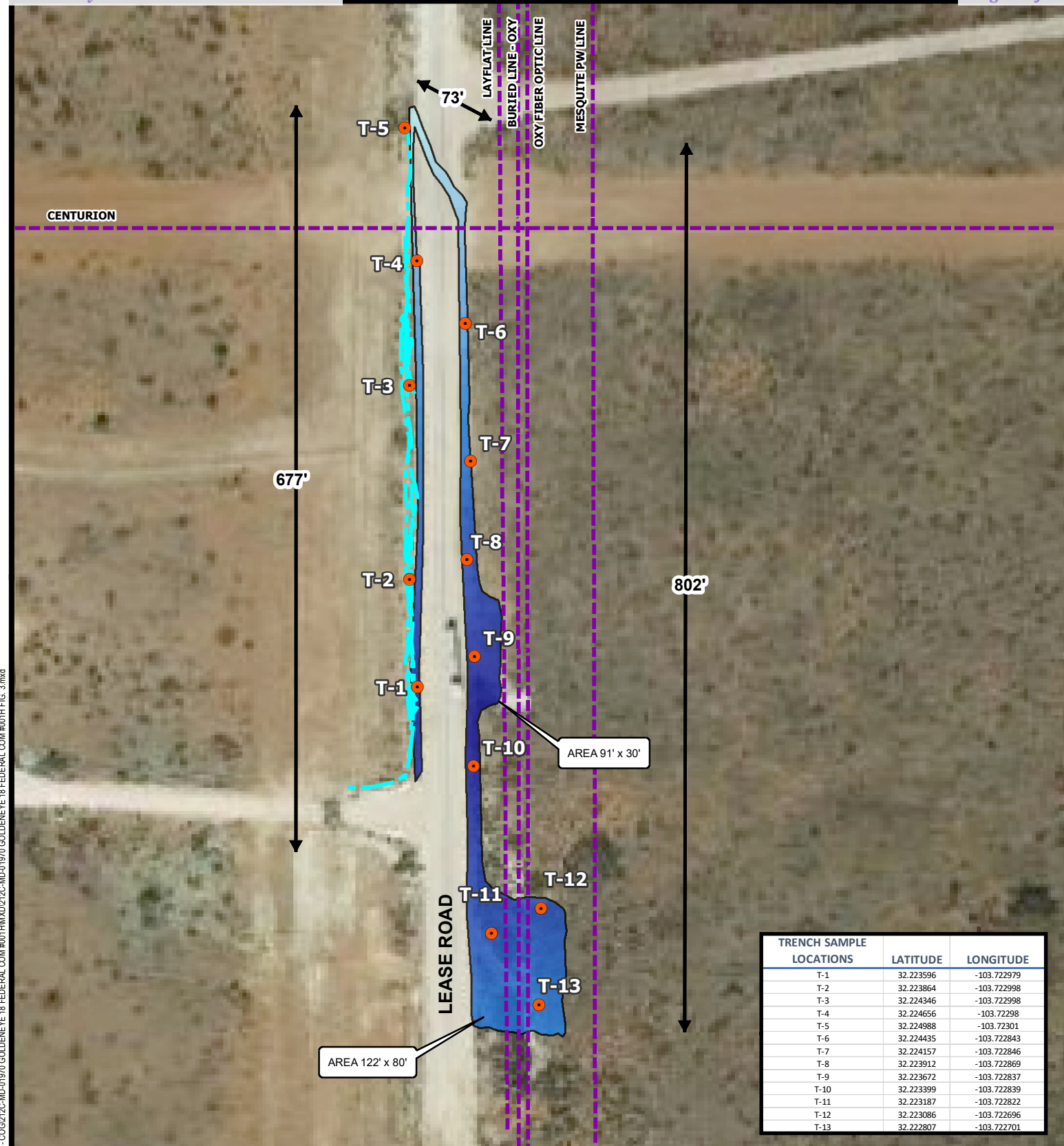
0 1,000 2,000
Approximate Scale in Feet

TOPOGRAPHIC MAP
GOLDENEYE 18 FEDERAL COM #001H
Property Located at coordinates 32.224747°,-103.723299°
EDDY COUNTY, NEW MEXICO

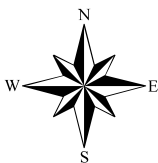


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FIGURE
2



- TRENCH SAMPLE LOCATIONS
- FLOWLINES
- BURIED LINES
- AFFECTED SPILL AREA



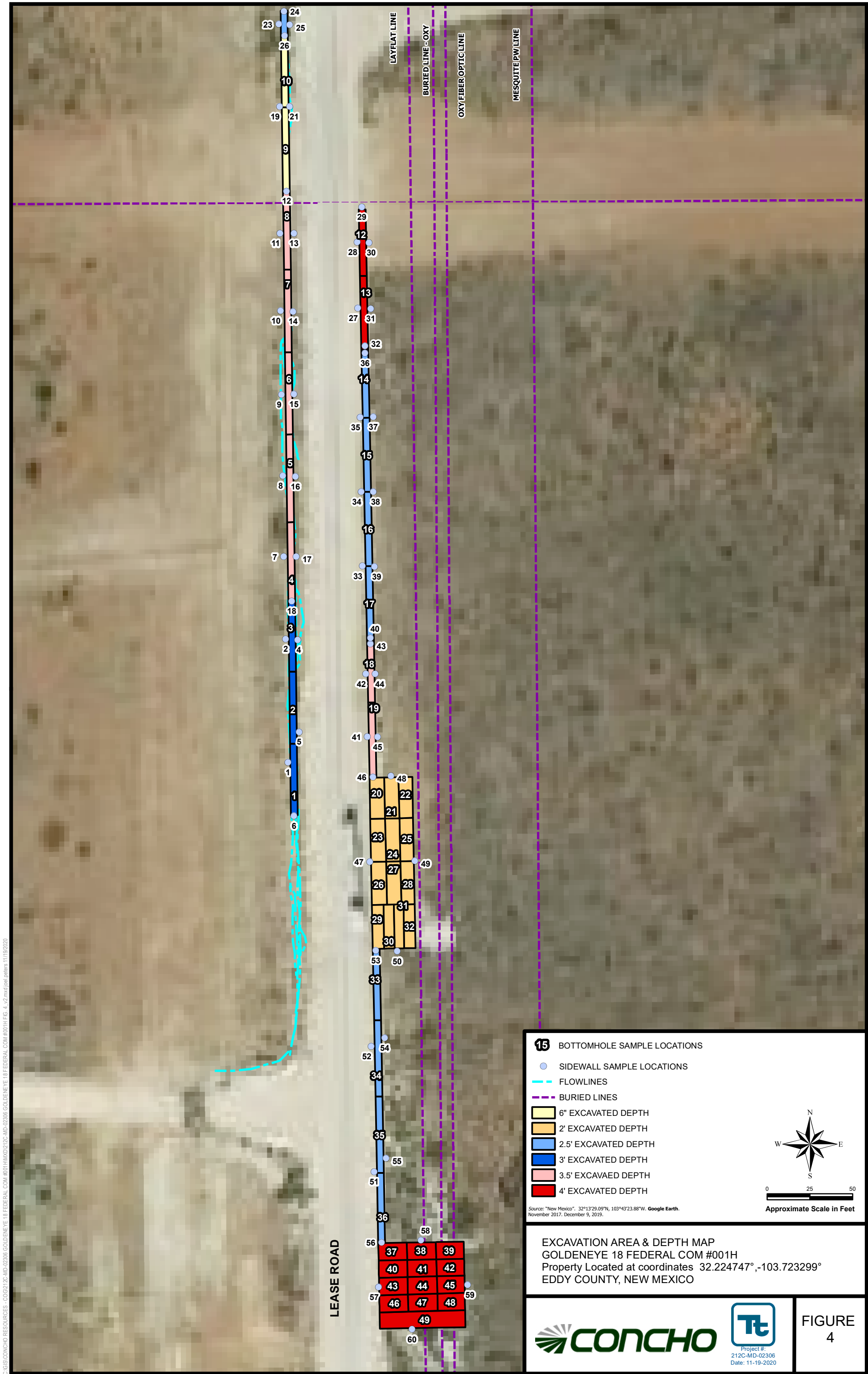
0 60 120
Approximate Scale in Feet

SPILL ASSESSMENT MAP
GOLDENEYE 18 FEDERAL COM #001H
 Property Located at coordinates 32.224747°, -103.723299°
 EDDY COUNTY, NEW MEXICO



Project #:
212C-MD-01970
Date: 12-09-2019

FIGURE
3



Tables

Table 1
COG
Goldeneye 18 Federal Com #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Excavation 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	GRO+DRO	ORO	Total						
T-1	12/11/19	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	141
	"	1	-	X		-	-	-	-	-	-	-	-	-	-	72.4
	"	2	-	X		-	-	-	-	-	-	-	-	-	-	81.0
	"	3	-	X		-	-	-	-	-	-	-	-	-	-	303
	"	4	-	X		-	-	-	-	-	-	-	-	-	-	325
T-2	12/11/19	0-1	-		X	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,790
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	7,230
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	3,540
	"	3	-	X		-	-	-	-	-	-	-	-	-	-	540
T-3	12/11/19	0-1	-		X	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	9,110
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	7,370
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	3,800
	"	3	-		X	-	-	-	-	-	-	-	-	-	-	1,300
T-4	12/11/19	0-1	-		X	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	8,480
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	4,900
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	521
	"	3	-		X	-	-	-	-	-	-	-	-	-	-	793
T-5	12/11/19	0-1	-		X	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	3,400
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	2,830
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	2,890
T-6	12/11/19	0-1	-		X	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	8,350
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	2,600
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	10,400
	"	3	-		X	-	-	-	-	-	-	-	-	-	-	2,360
T-7	12/11/19	0-1	-		X	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	7,430
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	8,420
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	6,450
T-8	12/11/19	0-1	-		X	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	9,060
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	8,490
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	8,450
	"	3	-		X	-	-	-	-	-	-	-	-	-	-	4,070
T-9	12/11/19	0-1	-		X	<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	16,000
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	6,710

Table 1
COG
Goldeneye 18 Federal Com #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Excavation 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	GRO+DRO	ORO	Total						
T-10	12/11/19	0-1	-		X	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	6,970
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	5,350
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	828
T-11	12/11/19	0-1	-		X	<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	6,830
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	7,420
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	6,630
	"	3	-		X	-	-	-	-	-	-	-	-	-	-	6,470
	"	4	-		X	-	-	-	-	-	-	-	-	-	-	8,400
	"	5	-	X		-	-	-	-	-	-	-	-	-	-	7,690
T-12	12/11/19	0-1	-		X	<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	7.43
	"	1	-		X	-	-	-	-	-	-	-	-	-	-	11.7
	"	2	-		X	-	-	-	-	-	-	-	-	-	-	702
	"	3	-		X	-	-	-	-	-	-	-	-	-	-	734
	"	4	-	X		-	-	-	-	-	-	-	-	-	-	207
	"	5	-	X		-	-	-	-	-	-	-	-	-	-	17.0
T-13	12/11/19	0-1	-	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	7.68
	"	1	-	X		-	-	-	-	-	-	-	-	-	-	52.3
	"	2	-	X		-	-	-	-	-	-	-	-	-	-	544

(-) Not Analyzed

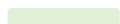
 Excavated

Table 2
COG
Goldeneye 18 Federal Com #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Excavation 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	GRO+DRO	ORO	Total						
Bottom Hole-1	9/4/2020	-	3.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	75.3
Bottom Hole-2	9/4/2020	-	3.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	90.7
Bottom Hole-3	9/4/2020	-	3.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	84.1
Bottom Hole-4	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	113
Bottom Hole-5	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	122
Bottom Hole-6	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	106
Bottom Hole-7	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	102
Bottom Hole-8	9/11/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	96.1
Bottom Hole-9	9/11/2020	-	0.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<5.05
Bottom Hole-10	9/11/2020	-	0.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	190
Bottom Hole-11	9/11/2020	-	2.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	170
Bottom Hole-12	9/4/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	316
Bottom Hole-13	9/4/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	344
Bottom Hole-14	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	89.7
Bottom Hole-15	9/4/2020	-	2.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	86.5
Bottom Hole-16	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	74.2
Bottom Hole-17	9/4/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	90.4
Bottom Hole-18	9/4/2020	-	3.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	52.9
Bottom Hole-19	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	51.8
Bottom Hole-20	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.2
Bottom Hole-21	9/25/2020	-	2.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	20.5
Bottom Hole-22	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	18.1
Bottom Hole-23	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	19.1
Bottom Hole-24	9/25/2020	-	2.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	23.0
Bottom Hole-25	9/25/2020	-	2.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	22.5
Bottom Hole-26	9/25/2020	-	2.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	20.1
Bottom Hole-27	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	22.2
Bottom Hole-28	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	21.9

Table 2
COG
Goldeneye 18 Federal Com #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Excavation 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	GRO+DRO	ORO	Total						
Bottom Hole-29	9/25/2020	-	2.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	25.1
Bottom Hole-30	9/25/2020	-	2.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	25.0
Bottom Hole-31	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	24.5
Bottom Hole-32	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	22.2
Bottom Hole-33	9/25/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	20.7
Bottom Hole-34	9/25/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	21.6
Bottom Hole-35	9/25/2020	-	2.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	21.3
Bottom Hole-36	9/25/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	0.00230	<0.00199	<0.00199	0.00230	23.1
Bottom Hole-37	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2860
Bottom Hole-38	9/25/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	2030
Bottom Hole-39	9/25/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	2020
Bottom Hole-40	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1960
Bottom Hole-41	9/25/2020	-	4.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1900
Bottom Hole-42	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	2350
Bottom Hole-43	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	820
Bottom Hole-44	9/25/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	639
Bottom Hole-45	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	662
Bottom Hole-46	9/25/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	598
Bottom Hole-47	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	467
Bottom Hole-48	9/25/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1830
Bottom Hole-49	9/25/2020	-	4.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2220
SW-1	9/4/2020	-	3.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	79.3
SW-2	9/4/2020	-	3.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	79.6
SW-3	9/4/2020	-	3.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	75.4
SW-4	9/4/2020	-	3.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	76.8
SW-5	9/4/2020	-	3.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	83.2
SW-6	9/4/2020	-	3.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	77.4
SW-7	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	576

Table 2
COG
Goldeneye 18 Federal Com #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Excavation 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	GRO+DRO	ORO	Total						
SW-8	9/11/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	105
SW-9	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	111
SW-10	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	91.8
SW-11	9/11/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	126
SW-12	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	99.1
SW-13	9/11/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	89.4
SW-14	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	103
SW-15	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	102
SW-16	9/11/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	108
SW-17	9/11/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	107
SW-18	9/11/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	101
SW-19	9/11/2020	-	0.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.95
SW-20	9/11/2020	-	0.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.02
SW-21	9/11/2020	-	0.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<4.95
SW-22	9/11/2020	-	0.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.05
SW-23	9/11/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	196
SW-24	9/11/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	181
SW-25	9/11/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	203
SW-26	9/11/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	198
SW-27	9/4/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	378
SW-28	9/4/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	339
SW-29	9/4/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	337
SW-30	9/4/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	370
SW-31	9/4/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	343
SW-32	9/4/2020	-	4.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	86.2
SW-33	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	85.7
SW-34	9/4/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	93.6
SW-35	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	82.7

Table 2
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Goldeneye 18 Federal Com #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Excavation 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	GRO+DRO	ORO	Total						
SW-36	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	81.9
SW-37	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	84.1
SW-38	9/4/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	79.4
SW-39	9/4/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	84.2
SW-40	9/4/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	97.9
SW-41	9/4/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	55.2
SW-42	9/4/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	53.9
SW-43	9/4/2020	-	3.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	56.9
SW-44	9/4/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	58.9
SW-45	9/4/2020	-	3.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	48.9
SW-46	9/4/2020	-	3.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	47.7
SW-47	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5.80
SW-48	9/25/2020	-	2.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<5.02
SW-49	9/25/2020	-	2.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.98
SW-50	9/25/2020	-	2.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.99
SW-51	9/25/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<5.03
SW-52	9/25/2020	-	2.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<4.98
SW-53	9/25/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<5.03
SW-54	9/25/2020	-	2.5	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.96
SW-55	9/25/2020	-	2.5	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<4.99
SW-56	9/25/2020	-	2.5	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<4.95
SW-57	9/25/2020	-	4.0	X		<49.9	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<5.04
SW-58	9/25/2020	-	4.0	X		<49.8	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<4.99
SW-59	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	5.31
SW-60	9/25/2020	-	4.0	X		<50.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.98

(-) Not Analyzed

Photos

Goldeneye 18 Fed Com #1H

Lea County, New Mexico



TETRA TECH



View North, area of Bottomholes 1 through 3



View South, area of Bottomholes 4 through 6

Goldeneye 18 Fed Com #1H

Lea County, New Mexico



TETRA TECH



View South, area of Bottomholes 7 and 8



View North, area of Bottomhole 11

Goldeneye 18 Fed Com #1H

Lea County, New Mexico



TETRA TECH



View South, area of Bottomholes 12 and 13



View North, area of 14 through 17

Goldeneye 18 Fed Com #1H

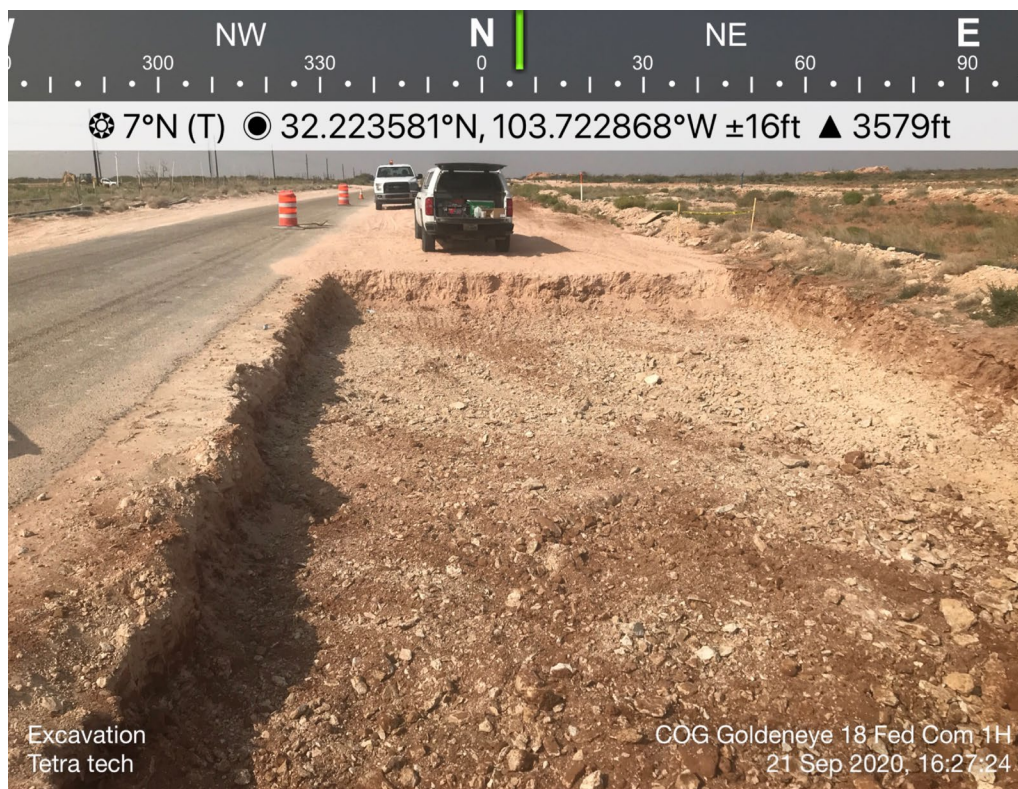
Lea County, New Mexico



TETRA TECH



View North, area of Bottomholes 18 and 19



View North, area of bottomholes 20 through 32

Goldeneye 18 Fed Com #1H

Lea County, New Mexico



View South, area of Bottomholes 33 through 36



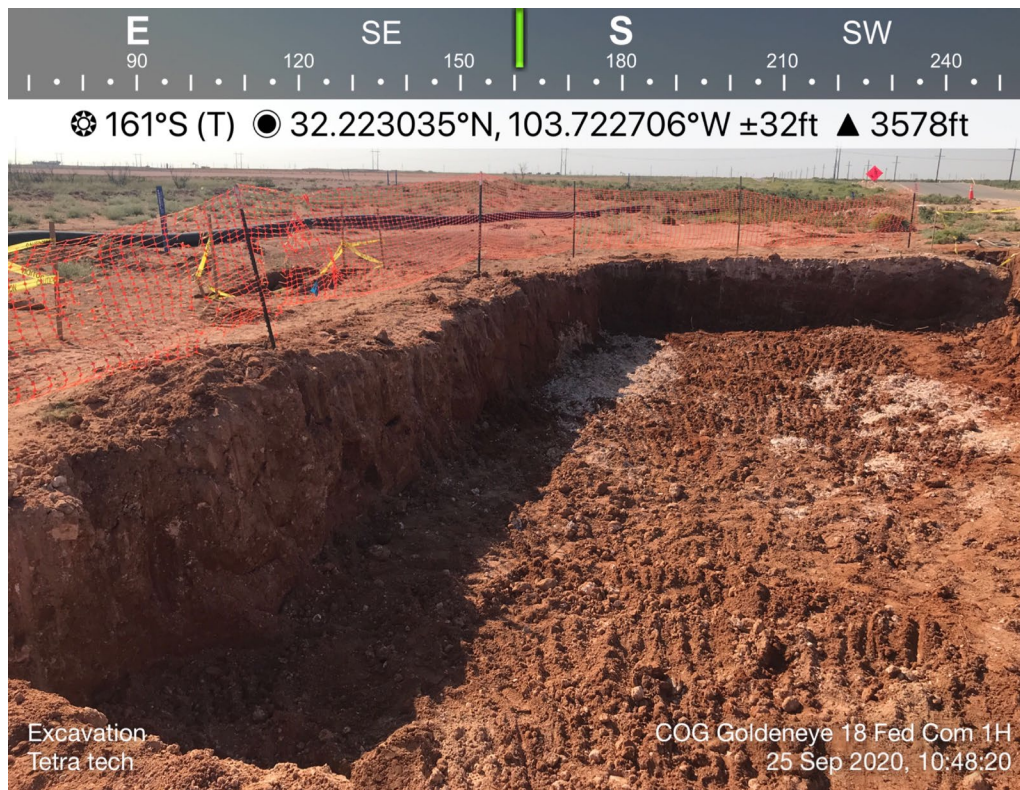
View North, area of Bottomholes 37, 40, 43, and 46

Goldeneye 18 Fed Com #1H

Lea County, New Mexico



TETRA TECH



View South, area of Bottomholes 38 through 49

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)

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

Incident ID	NRM1935137204
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

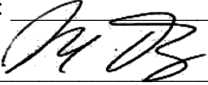
State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM1935137204
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:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Cristina Eads Date: 11/30/2020

Incident ID	NRM1935137204
District RP	
Facility ID	
Application ID	

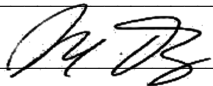
Closure

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

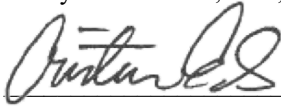
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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:  Date: _____
email: _____ Telephone: _____

OCD Only

Received by: Cristina Eads Date: 11/30/2020

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

Closure Approved by:  Date: 02/05/2021

Printed Name: Cristina Eads Title: Environmental Specialist

***** LIQUID SPILLS - VOLUME CALCULATIONS *****

Location of spill: COG -Goldeneye 18 Fed Com 1H

Date of Spill: 15-Oct-2019

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations									
Total Surface Area		width	length	wet soil			Standing Liquid Area		width	length	liquid depth		oil (%)			
				depth	oil (%)											
Rectangle Area #1	450	ft	12	ft	X	4.50	in	0%	Rectangle Area #1	0	ft	X	0	in	0%	
Rectangle Area #2	0	ft	X	0	ft	X	0.00	in	0%	Rectangle Area #2	0	ft	X	0	in	0%
Rectangle Area #3	0	ft	X	0	ft	X	0	in	0%	Rectangle Area #3	0	ft	X	0	in	0%
Rectangle Area #4	0	ft	X	0	ft	X	0	in	0%	Rectangle Area #4	0	ft	X	0	in	0%
Rectangle Area #5	0	ft	X	0	ft	X	0	in	0%	Rectangle Area #5	0	ft	X	0	in	0%
Rectangle Area #6	0	ft	X	0	ft	X	0	in	0%	Rectangle Area #6	0	ft	X	0	in	0%
Rectangle Area #7	0	ft	X	0	ft	X	0	in	0%	Rectangle Area #7	0	ft	X	0	in	0%
Rectangle Area #8	0	ft	X	0	ft	X	0	in	0%	Rectangle Area #8	0	ft	X	0	in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.

* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.

* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).

* Clay loam = 0.20 gal. liquid per gal. volume of soil.

* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.

* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume:	5,400 sq. ft.	2,025 cu. ft.	cu. ft.	Total Free Liquid Volume:	sq. ft.	cu. ft.	cu. ft.
Estimated Volumes Spilled				Estimated Production Volumes Lost			
Liquid in Soil:	H2O 50.5 BBL	OIL 0.0 BBL		Estimated Production Spilled:	H2O 0.0 BBL	OIL 0.0 BBL	
Free Liquid:	0.0 BBL	0.0 BBL					
Totals:	50.5 BBL	0.0 BBL					
Estimated Surface Damage				Estimated Surface Damage			
Total Liquid Spill Liquid:	50.5 BBL	0.00 BBL		Surface Area:	5,400 sq. ft.		
				Surface Area:	.1240 acre		
Recovered Volumes				Estimated Weights, and Volumes			
Estimated oil recovered:	BBL	check - okay		Saturated Soil =	226,800 lbs	2,025 cu. ft.	75 cu. yds.
Estimated water recovered:	BBL	check - okay		Total Liquid =	50 BBL	2,121 gallon	17,643 lbs

Air Emission from flowline leaks:

Volume of oil spill: - BBL
 Separator gas calculated: - MCF
 Separator gas released: - MCF
 Gas released from oil: - lb
 H2S released: - lb
 Total HC gas released: - lb
 Total HC gas released: - MCF

Air Emission of Reporting Requirements:

HC gas release reportable? ☒ NO ☒ Texas
 H2S release reportable? ☒ NO ☒ Texas

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - Goldeneye 18 Fed Com #1H
Lea County, New Mexico

23 South			30 East		
6	5	4	3	2	1
110	Maljamar			250	
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
			440		

23 South			31 East		
6	5	4	3	2	1
85	354	168			
7	8	9	10	11	12
140					
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
	140			100	
31	32	33	34	35	36

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

24 South			30 East		
6	5	4	3	2	1
7	8	9	10	11	12
	186				
18	17	16	15	14	13
19	231	20	21	22	23
150				400	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			31 East		
6	5	4	3	2	1
				205	
				160	
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		474			

24 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
		290			

25 South			30 East		
6	5	4	3	2	1
				295	
7	264	8	9	295	10
					390
18	17	16	15	14	13
19	20	21	22	23	24
		265			
30	29	28	27	26	25
31	32	33	34	35	36
		268			

25 South			31 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
		390			
30	29	28	27	26	25
31	32	33	34	35	36
		290			

25 South			32 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
	290				

- 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

COG

Goldeneye 18 Federal COM #001H

Legend

- 0.50 mile radius
- COG - Goldeneye 18 Federal COM #001H
- Groundwater Determination Bore





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02405	CUB	ED		4	1	02	24S	31E		617690	3568631*	275	160	115
C 02440	C	ED		2	3	10	24S	31E		616103	3566599*	350		
C 02460	C	ED		3	02		24S	31E		617496	3568022*	320		
C 02460 POD2	C	ED		3	02		24S	31E		617496	3568022*	320		
C 02464	C	ED		3	4	1	02	24S	31E	617589	3568530*	320	205	115
C 02661	CUB	ED		3	3	1	04	24S	31E	613969	3568485*	708		
C 02783	CUB	ED		3	3	1	04	24S	31E	613911	3568461	708		
C 02783 POD2	CUB	ED		3	3	1	04	24S	31E	613911	3568461	672		
C 02784	C	ED		4	2	4	04	24S	31E	613911	3568461	584		
C 02785	CUB	ED		3	3	1	04	24S	31E	613969	3568485*	692		

Average Depth to Water: **182 feet**

Minimum Depth: **160 feet**

Maximum Depth: **205 feet**

Record Count: 10

PLSS Search:

Township: 24S

Range: 31E

*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.

10/16/19 12:41 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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National Water Information System: Mapper

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



Site Information



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321312103395601

Minimum number of levels = 1

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

USGS 321312103395601 24S.32E.10.344333

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83

Land-surface elevation 3,589.00 feet above NGVD29

The depth of the well is 60 feet below land surface.

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

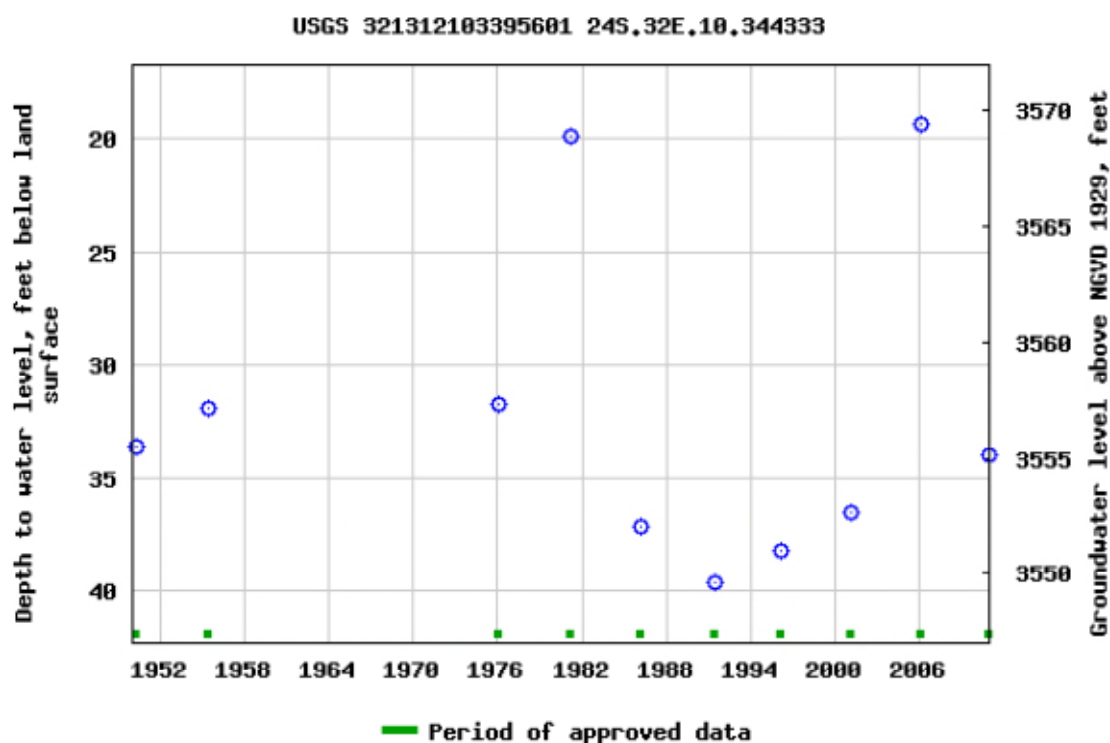
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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2019-10-16 14:46:02 EDT

1.05 0.95 nadww01



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USGS Water Resources

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Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 321609103445901

Minimum number of levels = 1

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

USGS 321609103445901 23S.31E.26.34411

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°16'11.9", Longitude 103°45'01.2" NAD83

Land-surface elevation 3,451.00 feet above NGVD29

The depth of the well is 365 feet below land surface.

This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

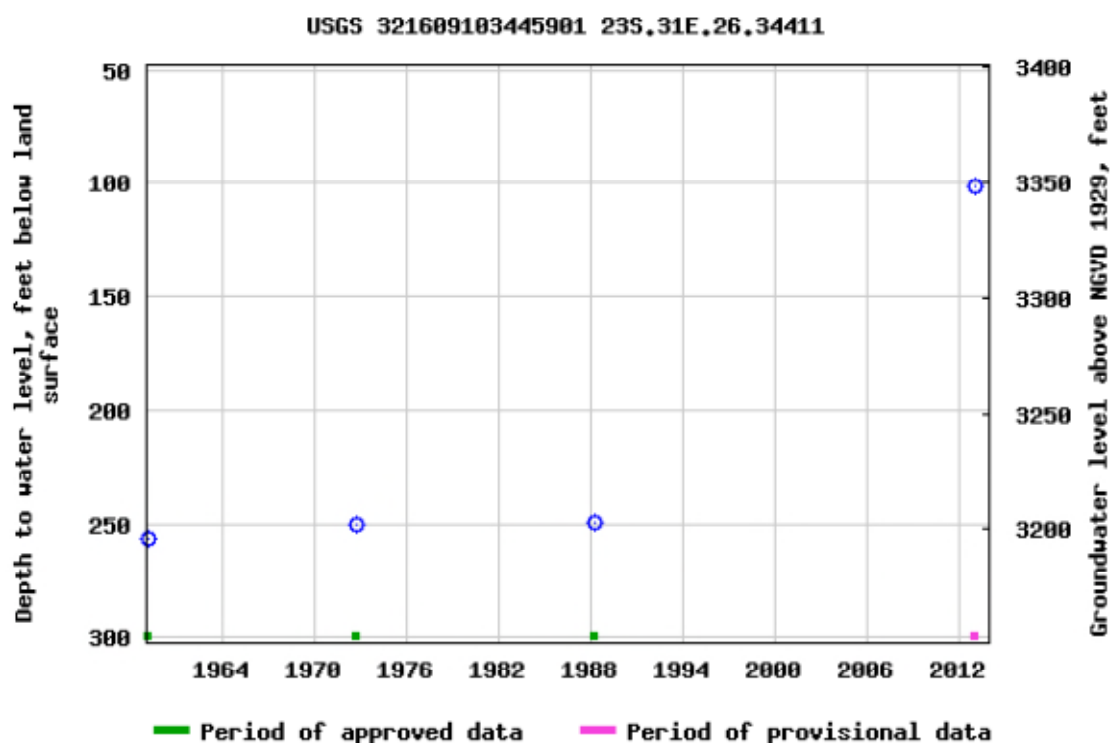
Output formats

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

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Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2019-10-16 14:47:38 EDT

1.03 0.89 nadww01





NFHL Web Mapping Application

Please select a c



Data Layers

780

Buck Jaco

Measure

Print

E

Search Result

Y:32.224790 X:-103.723087

3587 ft

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garm

100m
300ft

Appendix C



Certificate of Analysis Summary 646108

Tetra Tech- Midland, Midland, TX

Project Name: Golden Eye 18 Fed Com 1H



Project Id: 212C-MD-01970
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-12-19 01:05 pm
Report Date: 17-DEC-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-001	646108-002	646108-003	646108-004	646108-005	646108-006
	<i>Field Id:</i>	T-1 (0'-1')	T-1 (1')	T-1 (2')	T-1 (3')	T-1 (4')	T-2 (0'-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-12-19 14:30					Dec-12-19 14:30
	<i>Analyzed:</i>	Dec-12-19 17:48					Dec-12-19 18:08
	<i>Units/RL:</i>	mg/kg RL					mg/kg RL
Benzene		<0.00198 0.00198					<0.00200 0.00200
Toluene		<0.00198 0.00198					<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198					<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397					<0.00399 0.00399
o-Xylene		<0.00198 0.00198					<0.00200 0.00200
Total Xylenes		<0.00198 0.00198					<0.00200 0.00200
Total BTEX		<0.00198 0.00198					<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00
	<i>Analyzed:</i>	Dec-12-19 19:35	Dec-12-19 19:55	Dec-12-19 20:01	Dec-12-19 20:08	Dec-12-19 20:15	Dec-12-19 20:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		141 5.04	72.4 4.99	81.0 4.97	303 4.95	325 4.95	4790 25.3
TPH by SW8015 Mod	<i>Extracted:</i>	Dec-12-19 14:00					Dec-12-19 14:00
	<i>Analyzed:</i>	Dec-12-19 17:21					Dec-12-19 18:17
	<i>Units/RL:</i>	mg/kg RL					mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0					<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0					<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0					<49.8 49.8
Total TPH		<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

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 646108

Tetra Tech- Midland, Midland, TX

Project Name: Golden Eye 18 Fed Com 1H



Project Id: 212C-MD-01970
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-12-19 01:05 pm
Report Date: 17-DEC-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-007	646108-008	646108-009	646108-010	646108-011	646108-012
	<i>Field Id:</i>	T-2 (1')	T-2 (2')	T-2 (3')	T-3 (0'-1')	T-3 (1')	T-3 (2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>				Dec-12-19 14:30		
	<i>Analyzed:</i>				Dec-12-19 18:28		
	<i>Units/RL:</i>				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		
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00
	<i>Analyzed:</i>	Dec-12-19 20:41	Dec-12-19 20:48	Dec-12-19 21:08	Dec-12-19 20:54	Dec-12-19 21:01	Dec-12-19 21:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7230 49.9	3540 24.8	540 5.02	9110 50.0	7370 50.0	3800 24.9
TPH by SW8015 Mod	<i>Extracted:</i>				Dec-12-19 14:00		
	<i>Analyzed:</i>				Dec-12-19 18:36		
	<i>Units/RL:</i>				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		

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Project Name: Golden Eye 18 Fed Com 1H



Project Id: 212C-MD-01970
Contact: Mike Carmona
Project Location: Lea County, New Mexico

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<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-013	646108-014	646108-015	646108-016	646108-017	646108-018
	<i>Field Id:</i>	T-3 (3')	T-4 (0'-1')	T-4 (1')	T-4 (2')	T-4 (3')	T-5 (0'-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		Dec-12-19 14:30				Dec-12-19 14:30
	<i>Analyzed:</i>		Dec-12-19 18:49				Dec-12-19 19:09
	<i>Units/RL:</i>		mg/kg RL				mg/kg RL
Benzene			<0.00199 0.00199				<0.00198 0.00198
Toluene			<0.00199 0.00199				<0.00198 0.00198
Ethylbenzene			<0.00199 0.00199				<0.00198 0.00198
m,p-Xylenes			<0.00398 0.00398				<0.00396 0.00396
o-Xylene			<0.00199 0.00199				<0.00198 0.00198
Total Xylenes			<0.00199 0.00199				<0.00198 0.00198
Total BTEX			<0.00199 0.00199				<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:45	Dec-12-19 18:00
	<i>Analyzed:</i>	Dec-12-19 21:34	Dec-12-19 21:54	Dec-12-19 22:01	Dec-12-19 22:08	Dec-12-19 23:14	Dec-12-19 22:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1300 4.95	8480 50.4	4900 25.1	521 4.99	793 5.00	3400 25.2
TPH by SW8015 Mod	<i>Extracted:</i>		Dec-12-19 14:00				Dec-12-19 14:00
	<i>Analyzed:</i>		Dec-12-19 18:55				Dec-12-19 19:14
	<i>Units/RL:</i>		mg/kg RL				mg/kg RL
Gasoline Range Hydrocarbons (GRO)			<49.9 49.9				<50.0 50.0
Diesel Range Organics (DRO)			<49.9 49.9				<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)			<49.9 49.9				<50.0 50.0
Total TPH			<49.9 49.9				<50.0 50.0

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Project Location: Lea County, New Mexico

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<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-019	646108-020	646108-021	646108-022	646108-023	646108-024
	<i>Field Id:</i>	T-5 (1')	T-5 (2')	T-6 (0'-1')	T-6 (1')	T-6(2')	T-6(3')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			Dec-12-19 14:30			
	<i>Analyzed:</i>			Dec-12-19 19:29			
	<i>Units/RL:</i>			mg/kg RL			
Benzene				<0.00200 0.00200			
Toluene				<0.00200 0.00200			
Ethylbenzene				<0.00200 0.00200			
m,p-Xylenes				<0.00401 0.00401			
o-Xylene				<0.00200 0.00200			
Total Xylenes				<0.00200 0.00200			
Total BTEX				<0.00200 0.00200			
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:00	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45
	<i>Analyzed:</i>	Dec-12-19 22:21	Dec-12-19 22:27	Dec-12-19 22:34	Dec-12-19 23:34	Dec-12-19 23:41	Dec-12-19 23:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		2830 25.0	2890 25.0	8350 50.0	2600 24.8	10400 49.9	2360 25.2
TPH by SW8015 Mod	<i>Extracted:</i>			Dec-12-19 14:00			
	<i>Analyzed:</i>			Dec-12-19 19:33			
	<i>Units/RL:</i>			mg/kg RL			
Gasoline Range Hydrocarbons (GRO)				<49.9 49.9			
Diesel Range Organics (DRO)				<49.9 49.9			
Motor Oil Range Hydrocarbons (MRO)				<49.9 49.9			
Total TPH				<49.9 49.9			

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Project Id: 212C-MD-01970
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-12-19 01:05 pm
Report Date: 17-DEC-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-025	646108-026	646108-027	646108-028	646108-029	646108-030
	<i>Field Id:</i>	T-7 (0'-1')	T-7 (1')	T-7 (2')	T-8 (0'-1')	T-8 (1')	T-8 (2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-12-19 14:30			Dec-12-19 14:30		
	<i>Analyzed:</i>	Dec-12-19 19:50			Dec-12-19 20:10		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Benzene		<0.00200 0.00200			<0.00198 0.00198		
Toluene		<0.00200 0.00200			<0.00198 0.00198		
Ethylbenzene		<0.00200 0.00200			<0.00198 0.00198		
m,p-Xylenes		<0.00401 0.00401			<0.00397 0.00397		
o-Xylene		<0.00200 0.00200			<0.00198 0.00198		
Total Xylenes		<0.00200 0.00200			<0.00198 0.00198		
Total BTEX		<0.00200 0.00200			<0.00198 0.00198		
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45
	<i>Analyzed:</i>	Dec-12-19 23:54	Dec-13-19 00:14	Dec-13-19 00:20	Dec-13-19 00:27	Dec-13-19 00:34	Dec-13-19 00:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7430 50.1	8420 49.6	6450 50.0	9060 49.7	8490 50.3	8450 50.5
TPH by SW8015 Mod	<i>Extracted:</i>	Dec-12-19 14:00			Dec-12-19 14:00		
	<i>Analyzed:</i>	Dec-12-19 19:52			Dec-12-19 20:11		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			<50.0 50.0		
Diesel Range Organics (DRO)		<49.8 49.8			<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8			<50.0 50.0		
Total TPH		<49.8 49.8			<50.0 50.0		

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Project Id: 212C-MD-01970
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-12-19 01:05 pm
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<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-031	646108-032	646108-033	646108-034	646108-035	646108-036
	<i>Field Id:</i>	T-8 (3')	T-9 (0'-1')	T-9 (1')	T-10 (0'-1')	T-10 (1')	T-10 (2')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		Dec-12-19 14:30		Dec-12-19 14:30		
	<i>Analyzed:</i>		Dec-12-19 20:31		Dec-12-19 20:51		
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL		
Benzene			<0.00199 0.00199		<0.00202 0.00202		
Toluene			<0.00199 0.00199		<0.00202 0.00202		
Ethylbenzene			<0.00199 0.00199		<0.00202 0.00202		
m,p-Xylenes			<0.00398 0.00398		<0.00403 0.00403		
o-Xylene			<0.00199 0.00199		<0.00202 0.00202		
Total Xylenes			<0.00199 0.00199		<0.00202 0.00202		
Total BTEX			<0.00199 0.00199		<0.00202 0.00202		
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45
	<i>Analyzed:</i>	Dec-13-19 01:07	Dec-13-19 01:14	Dec-13-19 01:33	Dec-13-19 01:40	Dec-13-19 01:47	Dec-13-19 00:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4070 24.8	16000 101	6710 49.8	6970 50.0	5350 25.0	828 5.00
TPH by SW8015 Mod	<i>Extracted:</i>		Dec-12-19 14:00		Dec-12-19 14:00		
	<i>Analyzed:</i>		Dec-12-19 20:30		Dec-12-19 20:49		
	<i>Units/RL:</i>		mg/kg RL		mg/kg RL		
Gasoline Range Hydrocarbons (GRO)			<50.0 50.0		<49.9 49.9		
Diesel Range Organics (DRO)			<50.0 50.0		<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)			<50.0 50.0		<49.9 49.9		
Total TPH			<50.0 50.0		<49.9 49.9		

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<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-037	646108-038	646108-039	646108-040	646108-041	646108-042
	<i>Field Id:</i>	T-1 1(0'-1')	T-11 (1')	T-11 (2')	T-11 (3')	T-11 (4')	T-11 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-12-19 14:30					
	<i>Analyzed:</i>	Dec-12-19 22:30					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00400 0.00400					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	<i>Extracted:</i>	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-12-19 18:45	Dec-13-19 08:15	Dec-13-19 08:15
	<i>Analyzed:</i>	Dec-13-19 01:53	Dec-13-19 02:00	Dec-13-19 02:07	Dec-13-19 02:13	Dec-13-19 09:14	Dec-13-19 09:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6830 50.2	7420 49.7	6630 49.5	6470 50.4	8400 50.0	7690 50.0
TPH by SW8015 Mod	<i>Extracted:</i>	Dec-12-19 14:00					
	<i>Analyzed:</i>	Dec-12-19 21:08					
	<i>Units/RL:</i>	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9					
Diesel Range Organics (DRO)		<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9					
Total TPH		<49.9 49.9					

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<i>Analysis Requested</i>	<i>Lab Id:</i>	646108-043	646108-044	646108-045	646108-046	646108-047	646108-048
	<i>Field Id:</i>	T-12 (0'-1')	T-12 (1')	T-12 (2')	T-12 (3')	T-12 (4')	T-12 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	Dec-12-19 14:30					
	<i>Analyzed:</i>	Dec-12-19 22:51					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		<0.00201 0.00201					
Toluene		<0.00201 0.00201					
Ethylbenzene		<0.00201 0.00201					
m,p-Xylenes		<0.00402 0.00402					
o-Xylene		<0.00201 0.00201					
Total Xylenes		<0.00201 0.00201					
Total BTEX		<0.00201 0.00201					
Chloride by EPA 300	<i>Extracted:</i>	Dec-13-19 08:15	Dec-13-19 08:15	Dec-13-19 08:15	Dec-13-19 08:15	Dec-13-19 08:15	Dec-13-19 08:15
	<i>Analyzed:</i>	Dec-13-19 08:48	Dec-13-19 09:28	Dec-13-19 09:48	Dec-13-19 09:54	Dec-13-19 11:14	Dec-13-19 11:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7.43 5.00	11.7 4.99	702 4.95	734 4.98	207 4.99	17.0 5.02
TPH by SW8015 Mod	<i>Extracted:</i>	Dec-12-19 14:00					
	<i>Analyzed:</i>	Dec-12-19 21:27					
	<i>Units/RL:</i>	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8					
Diesel Range Organics (DRO)		<49.8 49.8					
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8					
Total TPH		<49.8 49.8					

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Project Location: Lea County, New Mexico

Date Received in Lab: Thu Dec-12-19 01:05 pm
Report Date: 17-DEC-19
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	646108-049	646108-050	646108-051			
	Field Id:	T-13 (0'-1')	T-13 (1')	T-1 3(2')			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Dec-11-19 00:00	Dec-11-19 00:00	Dec-11-19 00:00			
BTEX by EPA 8021B	Extracted:	Dec-12-19 14:30					
	Analyzed:	Dec-12-19 23:11					
	Units/RL:	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					
Chloride by EPA 300	Extracted:	Dec-13-19 08:15	Dec-13-19 08:15	Dec-13-19 08:15			
	Analyzed:	Dec-13-19 11:28	Dec-13-19 11:34	Dec-13-19 11:54			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		7.68 5.00	52.3 5.00	544 4.95			
TPH by SW8015 Mod	Extracted:	Dec-12-19 14:00					
	Analyzed:	Dec-12-19 21:46					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9					
Diesel Range Organics (DRO)		<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9					
Total TPH		<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

Jessica Kramer
Project Assistant

Analytical Report 646108

for
Tetra Tech- Midland

Project Manager: Mike Carmona

Golden Eye 18 Fed Com 1H

212C-MD-01970

17-DEC-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)

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

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



17-DEC-19

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **646108**

Golden Eye 18 Fed Com 1H

Project Address: Lea County, New Mexico

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) 646108. 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. 646108 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Assistant

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

Certified and approved by numerous States and Agencies.

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

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



Sample Cross Reference 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1 (0'-1')	S	12-11-19 00:00		646108-001
T-1 (1')	S	12-11-19 00:00		646108-002
T-1 (2')	S	12-11-19 00:00		646108-003
T-1 (3')	S	12-11-19 00:00		646108-004
T-1 (4')	S	12-11-19 00:00		646108-005
T-2 (0'-1')	S	12-11-19 00:00		646108-006
T-2 (1')	S	12-11-19 00:00		646108-007
T-2 (2')	S	12-11-19 00:00		646108-008
T-2 (3')	S	12-11-19 00:00		646108-009
T-3 (0'-1')	S	12-11-19 00:00		646108-010
T-3 (1')	S	12-11-19 00:00		646108-011
T-3 (2')	S	12-11-19 00:00		646108-012
T-3 (3')	S	12-11-19 00:00		646108-013
T-4 (0'-1')	S	12-11-19 00:00		646108-014
T-4 (1')	S	12-11-19 00:00		646108-015
T-4 (2')	S	12-11-19 00:00		646108-016
T-4 (3')	S	12-11-19 00:00		646108-017
T-5 (0'-1')	S	12-11-19 00:00		646108-018
T-5 (1')	S	12-11-19 00:00		646108-019
T-5 (2')	S	12-11-19 00:00		646108-020
T-6 (0'-1')	S	12-11-19 00:00		646108-021
T-6 (1')	S	12-11-19 00:00		646108-022
T-6(2')	S	12-11-19 00:00		646108-023
T-6(3')	S	12-11-19 00:00		646108-024
T-7 (0'-1')	S	12-11-19 00:00		646108-025
T-7 (1')	S	12-11-19 00:00		646108-026
T-7 (2')	S	12-11-19 00:00		646108-027
T-8 (0'-1')	S	12-11-19 00:00		646108-028
T-8 (1')	S	12-11-19 00:00		646108-029
T-8 (2')	S	12-11-19 00:00		646108-030
T-8 (3')	S	12-11-19 00:00		646108-031
T-9 (0'-1')	S	12-11-19 00:00		646108-032
T-9 (1')	S	12-11-19 00:00		646108-033
T-10 (0'-1')	S	12-11-19 00:00		646108-034
T-10 (1')	S	12-11-19 00:00		646108-035
T-10 (2')	S	12-11-19 00:00		646108-036
T-1 1(0'-1')	S	12-11-19 00:00		646108-037
T-11 (1')	S	12-11-19 00:00		646108-038
T-11 (2')	S	12-11-19 00:00		646108-039
T-11 (3')	S	12-11-19 00:00		646108-040
T-11 (4')	S	12-11-19 00:00		646108-041
T-11 (5')	S	12-11-19 00:00		646108-042
T-12 (0'-1')	S	12-11-19 00:00		646108-043

**Sample Cross Reference 646108****Tetra Tech- Midland, Midland, TX**

Golden Eye 18 Fed Com 1H

T-12 (1')	S	12-11-19 00:00	646108-044
T-12 (2')	S	12-11-19 00:00	646108-045
T-12 (3')	S	12-11-19 00:00	646108-046
T-12 (4')	S	12-11-19 00:00	646108-047
T-12 (5')	S	12-11-19 00:00	646108-048
T-13 (0'-1')	S	12-11-19 00:00	646108-049
T-13 (1')	S	12-11-19 00:00	646108-050
T-1 3(2')	S	12-11-19 00:00	646108-051

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Golden Eye 18 Fed Com 1H**Project ID: 212C-MD-01970
Work Order Number(s): 646108Report Date: 17-DEC-19
Date Received: 12/12/2019**Sample receipt non conformances and comments:**

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3110379 TPH by SW8015 Mod

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

Samples affected are: 646108-049.

Batch: LBA-3110390 Chloride by EPA 300

Lab Sample ID 646108-050 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646108-041, -042, -043, -044, -045, -046, -047, -048, -049, -050, -051.

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

Batch: LBA-3110412 Chloride by EPA 300

Lab Sample ID 646108-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646108-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -018, -019, -020, -021.

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

Batch: LBA-3110413 Chloride by EPA 300

Lab Sample ID 646108-036 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 646108-017, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040.

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



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Golden Eye 18 Fed Com 1H

Project ID: 212C-MD-01970
Work Order Number(s): 646108

Report Date: 17-DEC-19
Date Received: 12/12/2019

Batch: LBA-3110431 BTEX by EPA 8021B

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



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-001

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	141	5.04	mg/kg	12.12.19 19.35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.12.19 17.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.12.19 17.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.12.19 17.21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.12.19 17.21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-135	12.12.19 17.21		
o-Terphenyl	84-15-1	112	%	70-135	12.12.19 17.21		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-001

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.12.19 17.48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.12.19 17.48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.12.19 17.48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.12.19 17.48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.12.19 17.48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.12.19 17.48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.12.19 17.48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.12.19 17.48		
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.12.19 17.48		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 (1')
Lab Sample Id: 646108-002

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.4	4.99	mg/kg	12.12.19 19.55		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 (2')
Lab Sample Id: 646108-003

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	81.0	4.97	mg/kg	12.12.19 20.01		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 (3')
Lab Sample Id: 646108-004

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	303	4.95	mg/kg	12.12.19 20.08		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 (4')
Lab Sample Id: 646108-005

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	325	4.95	mg/kg	12.12.19 20.15		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-2 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-006

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4790	25.3	mg/kg	12.12.19 20.34		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.12.19 18.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.12.19 18.17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.12.19 18.17	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.12.19 18.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	12.12.19 18.17		
o-Terphenyl	84-15-1	107	%	70-135	12.12.19 18.17		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-2 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-006

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.12.19 18.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.12.19 18.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.12.19 18.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.12.19 18.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.12.19 18.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.12.19 18.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.12.19 18.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.12.19 18.08		
4-Bromofluorobenzene	460-00-4	95	%	70-130	12.12.19 18.08		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-2 (1')
Lab Sample Id: 646108-007

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7230	49.9	mg/kg	12.12.19 20.41		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-2 (2')
Lab Sample Id: 646108-008

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3540	24.8	mg/kg	12.12.19 20.48		5



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-2 (3')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-009

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	540	5.02	mg/kg	12.12.19 21.08		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-3 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-010

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9110	50.0	mg/kg	12.12.19 20.54		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.12.19 18.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.12.19 18.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.12.19 18.36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.12.19 18.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	12.12.19 18.36		
o-Terphenyl	84-15-1	107	%	70-135	12.12.19 18.36		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-3 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-010

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.12.19 18.28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.12.19 18.28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.12.19 18.28	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.12.19 18.28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.12.19 18.28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.12.19 18.28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.12.19 18.28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.12.19 18.28		
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.12.19 18.28		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-3 (1')
Lab Sample Id: 646108-011

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7370	50.0	mg/kg	12.12.19 21.01		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-3 (2')
Lab Sample Id: 646108-012

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3800	24.9	mg/kg	12.12.19 21.28		5



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-3 (3')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-013

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1300	4.95	mg/kg	12.12.19 21.34		1



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-4 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-014

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8480	50.4	mg/kg	12.12.19 21.54		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.12.19 18.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.12.19 18.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.12.19 18.55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.12.19 18.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-135	12.12.19 18.55		
o-Terphenyl	84-15-1	107	%	70-135	12.12.19 18.55		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-4 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-014

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.12.19 18.49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.12.19 18.49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.12.19 18.49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.12.19 18.49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.12.19 18.49	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.12.19 18.49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.12.19 18.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	12.12.19 18.49		
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.12.19 18.49		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-4 (1')
Lab Sample Id: 646108-015

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4900	25.1	mg/kg	12.12.19 22.01		5



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-4 (2')
Lab Sample Id: 646108-016

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	521	4.99	mg/kg	12.12.19 22.08		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-4 (3')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-017

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	793	5.00	mg/kg	12.12.19 23.14		1



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-5 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-018

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3400	25.2	mg/kg	12.12.19 22.14		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.12.19 19.14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.12.19 19.14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.12.19 19.14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.12.19 19.14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.12.19 19.14		
o-Terphenyl	84-15-1	105	%	70-135	12.12.19 19.14		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-5 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-018

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.12.19 19.09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.12.19 19.09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.12.19 19.09	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.12.19 19.09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.12.19 19.09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.12.19 19.09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.12.19 19.09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.12.19 19.09		
4-Bromofluorobenzene	460-00-4	99	%	70-130	12.12.19 19.09		



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-5 (1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-019

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2830	25.0	mg/kg	12.12.19 22.21		5



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-5 (2')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-020

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2890	25.0	mg/kg	12.12.19 22.27		5



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-6 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-021

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.00

Basis: Wet Weight

Seq Number: 3110412

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8350	50.0	mg/kg	12.12.19 22.34		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.12.19 19.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.12.19 19.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.12.19 19.33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.12.19 19.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	12.12.19 19.33	
o-Terphenyl	84-15-1	108	%	70-135	12.12.19 19.33	



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-6 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-021

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.12.19 19.29	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.12.19 19.29	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.12.19 19.29	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.12.19 19.29	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.12.19 19.29	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.12.19 19.29	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.12.19 19.29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.12.19 19.29		
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.12.19 19.29		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-6 (1')
Lab Sample Id: 646108-022

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2600	24.8	mg/kg	12.12.19 23.34		5



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-6(2')
Lab Sample Id: 646108-023

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10400	49.9	mg/kg	12.12.19 23.41		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-6(3')
Lab Sample Id: 646108-024

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2360	25.2	mg/kg	12.12.19 23.47		5



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-7 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-025

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7430	50.1	mg/kg	12.12.19 23.54		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.12.19 19.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.12.19 19.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.12.19 19.52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.12.19 19.52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-135	12.12.19 19.52		
o-Terphenyl	84-15-1	105	%	70-135	12.12.19 19.52		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-7 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-025

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.12.19 19.50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.12.19 19.50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.12.19 19.50	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.12.19 19.50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.12.19 19.50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.12.19 19.50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.12.19 19.50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.12.19 19.50		
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.12.19 19.50		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-7 (1')
Lab Sample Id: 646108-026

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8420	49.6	mg/kg	12.13.19 00.14		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-7 (2')
Lab Sample Id: 646108-027

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6450	50.0	mg/kg	12.13.19 00.20		10



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-8 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-028

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9060	49.7	mg/kg	12.13.19 00.27		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.12.19 20.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.12.19 20.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.12.19 20.11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.12.19 20.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.12.19 20.11		
o-Terphenyl	84-15-1	105	%	70-135	12.12.19 20.11		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-8 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-028

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.12.19 20.10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.12.19 20.10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.12.19 20.10	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.12.19 20.10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.12.19 20.10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.12.19 20.10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.12.19 20.10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	12.12.19 20.10		
1,4-Difluorobenzene	540-36-3	113	%	70-130	12.12.19 20.10		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-8 (1')
Lab Sample Id: 646108-029

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8490	50.3	mg/kg	12.13.19 00.34		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-8 (2')
Lab Sample Id: 646108-030

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8450	50.5	mg/kg	12.13.19 00.40		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-8 (3')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-031

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4070	24.8	mg/kg	12.13.19 01.07		5



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-9 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-032

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16000	101	mg/kg	12.13.19 01.14		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.12.19 20.30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.12.19 20.30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.12.19 20.30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	12.12.19 20.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-135	12.12.19 20.30		
o-Terphenyl	84-15-1	109	%	70-135	12.12.19 20.30		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-9 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-032

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.12.19 20.31	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.12.19 20.31	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.12.19 20.31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.12.19 20.31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.12.19 20.31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.12.19 20.31	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.12.19 20.31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.12.19 20.31		
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.12.19 20.31		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-9 (1')
Lab Sample Id: 646108-033

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6710	49.8	mg/kg	12.13.19 01.33		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-10 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-034

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6970	50.0	mg/kg	12.13.19 01.40		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.12.19 20.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.12.19 20.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.12.19 20.49	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.12.19 20.49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	103	%	70-135	12.12.19 20.49		
o-Terphenyl	84-15-1	102	%	70-135	12.12.19 20.49		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-10 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-034

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.12.19 20.51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.12.19 20.51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.12.19 20.51	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.12.19 20.51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.12.19 20.51	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.12.19 20.51	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.12.19 20.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	12.12.19 20.51		
1,4-Difluorobenzene	540-36-3	112	%	70-130	12.12.19 20.51		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-10 (1')
Lab Sample Id: 646108-035

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5350	25.0	mg/kg	12.13.19 01.47		5



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-10 (2')
Lab Sample Id: 646108-036

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	828	5.00	mg/kg	12.13.19 00.47		1



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 1(0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-037

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6830	50.2	mg/kg	12.13.19 01.53		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.12.19 21.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.12.19 21.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.12.19 21.08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.12.19 21.08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-135	12.12.19 21.08		
o-Terphenyl	84-15-1	105	%	70-135	12.12.19 21.08		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 1(0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-037

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.12.19 22.30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.12.19 22.30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.12.19 22.30	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.12.19 22.30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.12.19 22.30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.12.19 22.30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.12.19 22.30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	12.12.19 22.30		
1,4-Difluorobenzene	540-36-3	110	%	70-130	12.12.19 22.30		



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-11 (1')
Lab Sample Id: 646108-038

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7420	49.7	mg/kg	12.13.19 02.00		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-11 (2')
Lab Sample Id: 646108-039

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6630	49.5	mg/kg	12.13.19 02.07		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-11 (3')
Lab Sample Id: 646108-040

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.12.19 18.45

Basis: Wet Weight

Seq Number: 3110413

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6470	50.4	mg/kg	12.13.19 02.13		10



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-11 (4')
Lab Sample Id: 646108-041

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8400	50.0	mg/kg	12.13.19 09.14		10



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-11 (5')
Lab Sample Id: 646108-042

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7690	50.0	mg/kg	12.13.19 09.21		10



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-043

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.43	5.00	mg/kg	12.13.19 08.48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.12.19 21.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.12.19 21.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.12.19 21.27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	12.12.19 21.27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-135	12.12.19 21.27		
o-Terphenyl	84-15-1	103	%	70-135	12.12.19 21.27		



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-043

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.12.19 22.51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.12.19 22.51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.12.19 22.51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.12.19 22.51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.12.19 22.51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.12.19 22.51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.12.19 22.51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	12.12.19 22.51		
4-Bromofluorobenzene	460-00-4	90	%	70-130	12.12.19 22.51		



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (1')
Lab Sample Id: 646108-044

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.7	4.99	mg/kg	12.13.19 09.28		1



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (2')
Lab Sample Id: 646108-045

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	702	4.95	mg/kg	12.13.19 09.48		1



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Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (3')
Lab Sample Id: 646108-046

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	734	4.98	mg/kg	12.13.19 09.54		1



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (4')
Lab Sample Id: 646108-047

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	207	4.99	mg/kg	12.13.19 11.14		1



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-12 (5')
Lab Sample Id: 646108-048

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.0	5.02	mg/kg	12.13.19 11.21		1



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-13 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-049

Date Collected: 12.11.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.68	5.00	mg/kg	12.13.19 11.28		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 12.12.19 14.00

Basis: Wet Weight

Seq Number: 3110379

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.12.19 21.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.12.19 21.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.12.19 21.46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.12.19 21.46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	34	%	70-135	12.12.19 21.46	**	
o-Terphenyl	84-15-1	78	%	70-135	12.12.19 21.46		



Certificate of Analytical Results 646108



Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-13 (0'-1')

Matrix: Soil

Date Received: 12.12.19 13.05

Lab Sample Id: 646108-049

Date Collected: 12.11.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 12.12.19 14.30

Basis: Wet Weight

Seq Number: 3110431

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.12.19 23.11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.12.19 23.11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.12.19 23.11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.12.19 23.11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.12.19 23.11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.12.19 23.11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.12.19 23.11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	12.12.19 23.11		
4-Bromofluorobenzene	460-00-4	98	%	70-130	12.12.19 23.11		



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-13 (1')
Lab Sample Id: 646108-050

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.3	5.00	mg/kg	12.13.19 11.34		1



Certificate of Analytical Results 646108

Tetra Tech- Midland, Midland, TX

Golden Eye 18 Fed Com 1H

Sample Id: T-1 3(2')
Lab Sample Id: 646108-051

Matrix: Soil
Date Collected: 12.11.19 00.00

Date Received: 12.12.19 13.05

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 12.13.19 08.15

Basis: Wet Weight

Seq Number: 3110390

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	544	4.95	mg/kg	12.13.19 11.54		1



Flagging Criteria



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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland
Golden Eye 18 Fed Com 1H

Analytical Method: Chloride by EPA 300

Seq Number: 3110412

MB Sample Id: 7692383-1-BLK

Matrix: Solid

LCS Sample Id: 7692383-1-BKS

Prep Method: E300P

Date Prep: 12.12.19

LCSD Sample Id: 7692383-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	235	94	231	92	90-110	2	20	mg/kg	12.12.19 19:21	

Analytical Method: Chloride by EPA 300

Seq Number: 3110413

MB Sample Id: 7692385-1-BLK

Matrix: Solid

LCS Sample Id: 7692385-1-BKS

Prep Method: E300P

Date Prep: 12.12.19

LCSD Sample Id: 7692385-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	238	95	238	95	90-110	0	20	mg/kg	12.12.19 23:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3110390

MB Sample Id: 7692378-1-BLK

Matrix: Solid

LCS Sample Id: 7692378-1-BKS

Prep Method: E300P

Date Prep: 12.13.19

LCSD Sample Id: 7692378-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	270	108	255	102	90-110	6	20	mg/kg	12.13.19 08:34	

Analytical Method: Chloride by EPA 300

Seq Number: 3110412

Parent Sample Id: 646108-001

Matrix: Soil

MS Sample Id: 646108-001 S

Prep Method: E300P

Date Prep: 12.12.19

MSD Sample Id: 646108-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	141	252	381	95	380	95	90-110	0	20	mg/kg	12.12.19 19:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3110412

Parent Sample Id: 646108-009

Matrix: Soil

MS Sample Id: 646108-009 S

Prep Method: E300P

Date Prep: 12.12.19

MSD Sample Id: 646108-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	540	251	764	89	764	89	90-110	0	20	mg/kg	12.12.19 21:14	X

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

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

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

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



Tetra Tech- Midland
Golden Eye 18 Fed Com 1H

Analytical Method: Chloride by EPA 300

Seq Number: 3110413

Parent Sample Id: 646108-017

Matrix: Soil

MS Sample Id: 646108-017 S

Prep Method: E300P

Date Prep: 12.12.19

MSD Sample Id: 646108-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	793	250	999	82	998	82	90-110	0	20	mg/kg	12.12.19 23:21	X

Analytical Method: Chloride by EPA 300

Seq Number: 3110413

Parent Sample Id: 646108-036

Matrix: Soil

MS Sample Id: 646108-036 S

Prep Method: E300P

Date Prep: 12.12.19

MSD Sample Id: 646108-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	828	250	1030	81	1030	81	90-110	0	20	mg/kg	12.13.19 00:54	X

Analytical Method: Chloride by EPA 300

Seq Number: 3110390

Parent Sample Id: 646108-043

Matrix: Soil

MS Sample Id: 646108-043 S

Prep Method: E300P

Date Prep: 12.13.19

MSD Sample Id: 646108-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.43	249	247	96	265	103	90-110	7	20	mg/kg	12.13.19 08:54	

Analytical Method: Chloride by EPA 300

Seq Number: 3110390

Parent Sample Id: 646108-050

Matrix: Soil

MS Sample Id: 646108-050 S

Prep Method: E300P

Date Prep: 12.13.19

MSD Sample Id: 646108-050 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	52.3	250	333	112	331	111	90-110	1	20	mg/kg	12.13.19 11:41	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110379

MB Sample Id: 7692317-1-BLK

Matrix: Solid

LCS Sample Id: 7692317-1-BKS

Prep Method: SW8015P

Date Prep: 12.12.19

LCSD Sample Id: 7692317-1-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)	<15.0	1000	1060	106	1070	107	70-135	1	20	mg/kg	12.12.19 16:43	
Diesel Range Organics (DRO)	<15.0	1000	1070	107	1080	108	70-135	1	20	mg/kg	12.12.19 16:43	

Surrogate

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		124		121		70-135	%	12.12.19 16:43
o-Terphenyl	105		114		111		70-135	%	12.12.19 16:43

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

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

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

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



Tetra Tech- Midland
Golden Eye 18 Fed Com 1H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110379

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.12.19

MB Sample Id: 7692317-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.12.19 16:24	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110379

Matrix: Soil

Prep Method: SW8015P

Date Prep: 12.12.19

Parent Sample Id: 646108-001

MS Sample Id: 646108-001 S

MSD Sample Id: 646108-001 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)	<15.0	997	1130	113	1130	113	70-135	0	20	mg/kg	12.12.19 17:39	
Diesel Range Organics (DRO)	<15.0	997	1130	113	1140	114	70-135	1	20	mg/kg	12.12.19 17:39	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		127		70-135	%	12.12.19 17:39
o-Terphenyl	119		116		70-135	%	12.12.19 17:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110431

Matrix: Solid

Prep Method: SW5030B

Date Prep: 12.12.19

MB Sample Id: 7692309-1-BLK

LCS Sample Id: 7692309-1-BKS

LCSD Sample Id: 7692309-1-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	0.124	124	0.118	118	70-130	5	35	mg/kg	12.12.19 15:07	
Toluene	<0.00200	0.100	0.113	113	0.109	109	70-130	4	35	mg/kg	12.12.19 15:07	
Ethylbenzene	<0.00200	0.100	0.113	113	0.110	110	70-130	3	35	mg/kg	12.12.19 15:07	
m,p-Xylenes	<0.00400	0.200	0.232	116	0.224	112	70-130	4	35	mg/kg	12.12.19 15:07	
o-Xylene	<0.00200	0.100	0.114	114	0.110	110	70-130	4	35	mg/kg	12.12.19 15:07	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		112		111		70-130	%	12.12.19 15:07
4-Bromofluorobenzene	94		100		99		70-130	%	12.12.19 15:07

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- Midland
Golden Eye 18 Fed Com 1H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110431

Parent Sample Id: 646108-001

Matrix: Soil

MS Sample Id: 646108-001 S

Prep Method: SW5030B

Date Prep: 12.12.19

MSD Sample Id: 646108-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.112	112	0.0976	98	70-130	14	35	mg/kg	12.12.19 16:17	
Toluene	<0.00199	0.0996	0.105	105	0.0900	90	70-130	15	35	mg/kg	12.12.19 16:17	
Ethylbenzene	<0.00199	0.0996	0.105	105	0.0889	89	70-130	17	35	mg/kg	12.12.19 16:17	
m,p-Xylenes	<0.00398	0.199	0.215	108	0.180	90	70-130	18	35	mg/kg	12.12.19 16:17	
o-Xylene	<0.00199	0.0996	0.106	106	0.0891	89	70-130	17	35	mg/kg	12.12.19 16:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		110		70-130	%	12.12.19 16:17
4-Bromofluorobenzene	111		102		70-130	%	12.12.19 16:17

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring Street, Ste
 401 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: Concho		Site Manager: Mike Carmona	
Project Name: Golden Eye 18 Fed Com 1H		Project #: 212C-MD-01970	
Project Location: Lea County, New Mexico		Project #: 212C-MD-01970	
Invoice to: Ike Tavaréz		Sampler Signature: Brittany Long	
Receiving Laboratory: Xenco		Sampler Signature: Brittany Long	
Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX				PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
		YEAR	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE						
	T-1 (0-1')		12/11/2019		X			X				1	N	X	
	T-1 (1')		12/11/2019		X			X				1	N	X	
	T-1 (2')		12/11/2019		X			X				1	N	X	
	T-1 (3')		12/11/2019		X			X				1	N	X	
	T-1 (4')		12/11/2019		X			X				1	N	X	
	T-2 (0-1')		12/11/2019		X			X				1	N	X	
	T-2 (1')		12/11/2019		X			X				1	N	X	
	T-2 (2')		12/11/2019		X			X				1	N	X	
	T-2 (3')		12/11/2019		X			X				1	N	X	
	T-3 (0-1')		12/11/2019		X			X				1	N	X	

Relinquished by: <i>[Signature]</i>	Date: 12.12.19	Time: 13:05	Received by: <i>[Signature]</i>	Date: 12/12/19	Time: 13:05
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY	REMARKS:
☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	ANALYSIS REQUEST (Circle or Specify Method No.) BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Hold

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring Street, Ste
 401 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

01/10/18 Page 2 of 6

Client Name: Concho		Site Manager: Mike Carmona	
Project Name: Golden Eye 18 Fed Com 1H		Project #: 212C-MD-01970	
Project Location: Lea County, New Mexico		Invoice to: Ike Tavaraz	
Receiving Laboratory: Xenco		Sampler Signature: Brittany Long	
Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME		WATER	SOIL	HCL	HNO ₃			ICE
	T-3 (1)	12/11/2019		X			X			1	N
	T-3 (2)	12/11/2019		X			X			1	N
	T-3 (3)	12/11/2019		X			X			1	N
	T-4 (0-1)	12/11/2019		X			X			1	N
	T-4 (1)	12/11/2019		X			X			1	N
	T-4 (2)	12/11/2019		X			X			1	N
	T-4 (3)	12/11/2019		X			X			1	N
	T-5 (0-1)	12/11/2019		X			X			1	N
	T-5 (1)	12/11/2019		X			X			1	N
	T-5 (2)	12/11/2019		X			X			1	N

LAB USE ONLY	REMARKS:
3.3	☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring Street, Ste
 401 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Page 3 of 6

Client Name:		Concho		Site Manager:		Mike Carmona	
Project Name:		Golden Eye 18 Fed Com 1H		Project #:		212C-MD-01970	
Project Location: (county, state)		Lea County, New Mexico		Project #:		212C-MD-01970	
Invoice to:		Ike Tavaraz		Sampler Signature:		Brittany Long	
Receiving Laboratory:		Xenco		Sampler Signature:		Brittany Long	
Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:	
		YEAR	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE					
	T-6 (0-1')		12/11/2019		X		X				1	N	X	BTEX 8021B BTEX 8260B
	T-6 (1')		12/11/2019		X		X				1	N	X	TPH TX1005 (Ext to C35)
	T-6 (2)		12/11/2019		X		X				1	N		TPH 8015M (GRO - DRO - ORO - MRO)
	T-6 (3)		12/11/2019		X		X				1	N		PAH 8270C
	T-7 (0-1')		12/11/2019		X		X				1	N		Total Metals Ag As Ba Cd Cr Pb Se Hg
	T-7 (1')		12/11/2019		X		X				1	N		TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	T-7 (2)		12/11/2019		X		X				1	N		TCLP Volatiles
	T-8 (0-1')		12/11/2019		X		X				1	N		TCLP Semi Volatiles
	T-8 (1')		12/11/2019		X		X				1	N		RCI
	T-8 (2')		12/11/2019		X		X				1	N		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

elinguished by:	Date:	Time:	Received by:	Date:	Time:
elinguished by:	12.12.19	13:05	Received by:	12/12/19	13:05
elinguished by:			Received by:		

LAB USE ONLY	REMARKS:
☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

3.3

Sample Temperature

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 4000 N. Big Spring Street, Ste
 401 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Page 4 of 6

Client Name: Concho		Site Manager: Mike Carmona	
Project Name: Golden Eye 18 Fed Com 1H			
Project Location: Lea County, New Mexico		Project #: 212C-MD-01970	
Invoice to: Ike Tavaraz			
Receiving Laboratory: Xenco		Sampler Signature: Brittany Long	
Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE						
									YEAR					TIME
	T-8 (3)	12/11/2019		X				X			1	N		
	T-9 (0-1')	12/11/2019			X			X			1	N	X	
	T-9 (1')	12/11/2019			X			X			1	N	X	
	T-10 (0-1')	12/11/2019			X			X			1	N	X	
	T-10 (1')	12/11/2019			X			X			1	N		
	T-10 (2)	12/11/2019			X			X			1	N		
	T-11 (0-1')	12/11/2019			X			X			1	N	X	
	T-11 (1')	12/11/2019			X			X			1	N		
	T-11 (2)	12/11/2019			X			X			1	N		
	T-11 (3)	12/11/2019			X			X			1	N		

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

LAB USE ONLY	REMARKS:
3.3	☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

10110108

Page 5 of 6

Client Name: Concho		Site Manager: Mike Carmona	
Project Name: Golden Eye 18 Fed Com 1H		Project #: 212C-MD-01970	
Project Location: Lea County, New Mexico		Project #: 212C-MD-01970	
Invoice to: Ike Tavaréz		Sampler Signature: Brittany Long	
Receiving Laboratory: Xenco		Comments: Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
		YEAR	DATE											
	T-11 (4)		12/11/2019				X				1	N		
	T-11 (5)		12/11/2019				X				1	N		
	T-12 (0-1)		12/11/2019				X				1	N		
	T-12 (1)		12/11/2019				X				1	N		
	T-12 (2)		12/11/2019				X				1	N		
	T-12 (3)		12/11/2019				X				1	N		
	T-12 (4)		12/11/2019				X				1	N		
	T-12 (5)		12/11/2019				X				1	N		
	T-13 (0-1)		12/11/2019				X				1	N		
	T-13 (1)		12/11/2019				X				1	N		

elinguished by: <i>Mike Carmona</i>	Date: 12.12.19	Time: 13:05	Received by: <i>Mike Carmona</i>	Date: 12.12.19	Time: 13:05
elinguished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

3.3

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

10/16/08

Page 11 of 16

Client Name:		Concho						Site Manager:		Mike Carmona							
Project Name:		Golden Eye 18 Fed Com 1H															
Project Location: (county, state)		Lea County, New Mexico						Project #:		212C-MD-01970							
Invoice to:		Ike Tavarez															
Receiving Laboratory:		Xenco						Sampler Signature:		Brittany Long							
Comments:		Run deeper samples if TPH (GRO + DRO + MRO) exceeds 2,500 mg/kg or (GRO + DRO) exceeds 1,000 mg/kg. Run deeper samples if benzene exceeds 10 mg/kg or Total BTEX exceeds 50 mg/kg.															
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)							
		YEAR:	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE								
	T-13 (2)		12/11/2019		X			X		1	N	Hold					
Abandoned by:		Date:	Time:	Received by:	Date:	Time:	REMARKS:										
Abandoned by:		Date:	Time:	Received by:	Date:	Time:											
Abandoned by:		Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY										
Abandoned by:		Date:	Time:	Received by:	Date:	Time:											
Abandoned by:		Date:	Time:	Received by:	Date:	Time:	Sample Temperature										
Abandoned by:		Date:	Time:	Received by:	Date:	Time:											
Abandoned by:		Date:	Time:	Received by:	Date:	Time:	Special Report Limits or TRRP Report										
Abandoned by:		Date:	Time:	Received by:	Date:	Time:											



Client: Tetra Tech- Midland

Date/ Time Received: 12/12/2019 01:05:00 PM

Work Order #: 646108

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	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: 12/12/2019

Checklist reviewed by:

Jessica Kramer

Date: 12/13/2019

Certificate of Analysis Summary 672316



Tetra Tech- Midland, Midland, TX

Project Name: COG-Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 09.11.2020 11:43
Report Date: 09.25.2020 08:40
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	672316-001 Bottom Hole-1 (3') SOIL 09.04.2020 00:00	672316-002 Bottom Hole-2 (3') SOIL 09.04.2020 00:00	672316-003 Bottom Hole-3 (3') SOIL 09.04.2020 00:00	672316-004 SW-1 (3') SOIL 09.04.2020 00:00	672316-005 SW-2 (3') SOIL 09.04.2020 00:00	672316-006 SW-3 (3') SOIL 09.04.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.11.2020 17:00 09.12.2020 03:10 mg/kg RL	09.11.2020 17:00 09.12.2020 03:30 mg/kg RL	09.11.2020 12:00 09.11.2020 15:05 mg/kg RL	09.11.2020 17:00 09.12.2020 03:51 mg/kg RL	09.11.2020 17:00 09.12.2020 04:12 mg/kg RL	09.11.2020 17:00 09.12.2020 04:32 mg/kg RL
Benzene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00403 0.00403	<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.11.2020 17:45 09.11.2020 18:44 mg/kg RL	09.11.2020 17:45 09.11.2020 19:00 mg/kg RL	09.11.2020 17:45 09.11.2020 19:05 mg/kg RL	09.11.2020 17:45 09.11.2020 19:10 mg/kg RL	09.11.2020 17:45 09.11.2020 19:15 mg/kg RL	09.11.2020 17:45 09.11.2020 19:31 mg/kg RL
Chloride		75.3 4.97	90.7 5.04	84.1 5.02	79.3 5.00	79.6 5.05	75.4 5.02
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.11.2020 15:56 09.12.2020 01:03 mg/kg RL	09.11.2020 15:56 09.12.2020 02:00 mg/kg RL	09.11.2020 15:56 09.12.2020 02:19 mg/kg RL	09.11.2020 15:56 09.12.2020 02:38 mg/kg RL	09.11.2020 15:56 09.12.2020 02:57 mg/kg RL	09.11.2020 15:56 09.12.2020 03:16 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<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)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672316



Tetra Tech- Midland, Midland, TX

Project Name: COG-Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 09.11.2020 11:43
Report Date: 09.25.2020 08:40
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	672316-007	672316-008	672316-009			
	Field Id:	SW-4 (3')	SW-5 (3')	SW-6 (3')			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	09.04.2020 00:00	09.04.2020 00:00	09.04.2020 00:00			
BTEX by EPA 8021B	Extracted:	09.11.2020 17:00	09.11.2020 17:00	09.11.2020 17:00			
	Analyzed:	09.12.2020 04:53	09.12.2020 05:14	09.12.2020 05:34			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
m,p-Xylenes		<0.00400 0.00400	<0.00399 0.00399	<0.00399 0.00399			
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	09.11.2020 17:45	09.11.2020 17:45	09.11.2020 17:45			
	Analyzed:	09.11.2020 19:37	09.11.2020 19:42	09.11.2020 19:47			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		76.8 4.98	83.2 4.97	77.4 4.95			
TPH by SW8015 Mod	Extracted:	09.11.2020 15:56	09.11.2020 15:56	09.11.2020 15:56			
	Analyzed:	09.12.2020 03:35	09.12.2020 03:54	09.12.2020 04:14			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0			
Diesel Range Organics (DRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.8 49.8	<50.0 50.0			
Total TPH		<49.9 49.9	<49.8 49.8	<50.0 50.0			

BRL - Below Reporting Limit

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

Analytical Report 672316

for

Tetra Tech- Midland

Project Manager: Mike Carmona

COG-Goldeneye 18 Federal Com #1H (10.15.19)

212C-MD-02306

09.25.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.25.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **672316**

COG-Goldeneye 18 Federal Com #1H (10.15.19)

Project Address: Eddy County, New Mexico

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 Eurofins Xenco, LLC Report Number(s) 672316. 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 Eurofins Xenco, LLC. 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. 672316 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 Eurofins Xenco, LLC 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 672316****Tetra Tech- Midland, Midland, TX**

COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole-1 (3')	S	09.04.2020 00:00		672316-001
Bottom Hole-2 (3')	S	09.04.2020 00:00		672316-002
Bottom Hole-3 (3')	S	09.04.2020 00:00		672316-003
SW-1 (3')	S	09.04.2020 00:00		672316-004
SW-2 (3')	S	09.04.2020 00:00		672316-005
SW-3 (3')	S	09.04.2020 00:00		672316-006
SW-4 (3')	S	09.04.2020 00:00		672316-007
SW-5 (3')	S	09.04.2020 00:00		672316-008
SW-6 (3')	S	09.04.2020 00:00		672316-009



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: COG-Goldeneye 18 Federal Com #1H (10.15.19)

Project ID: 212C-MD-02306
Work Order Number(s): 672316

Report Date: 09.25.2020
Date Received: 09.11.2020

Sample receipt non conformances and comments:

V1.001 Revision - Corrected sample ID typo

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 672316

Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-1 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-001 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.3	4.97	mg/kg	09.11.2020 18:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.12.2020 01:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.12.2020 01:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.12.2020 01:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.12.2020 01:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	09.12.2020 01:03	
o-Terphenyl	84-15-1	116	%	70-130	09.12.2020 01:03	



Certificate of Analytical Results 672316

Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-1 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-001 Date Collected: 09.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 09.11.2020 17:00 Basis: Wet Weight
 Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.12.2020 03:10	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.12.2020 03:10	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.12.2020 03:10	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.12.2020 03:10	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.12.2020 03:10	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.12.2020 03:10	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.12.2020 03:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.12.2020 03:10		
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.12.2020 03:10		



Certificate of Analytical Results 672316

Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-2 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-002 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	90.7	5.04	mg/kg	09.11.2020 19:00		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.12.2020 02:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.12.2020 02:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.12.2020 02:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.12.2020 02:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	09.12.2020 02:00	
o-Terphenyl	84-15-1	97	%	70-130	09.12.2020 02:00	



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-2 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-002 Date Collected: 09.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 09.11.2020 17:00 Basis: Wet Weight
 Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.12.2020 03:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.12.2020 03:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.12.2020 03:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.12.2020 03:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.12.2020 03:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.12.2020 03:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.12.2020 03:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.12.2020 03:30		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.12.2020 03:30		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-3 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-003 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.1	5.02	mg/kg	09.11.2020 19:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.12.2020 02:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.12.2020 02:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.12.2020 02:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.12.2020 02:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.12.2020 02:19	
o-Terphenyl	84-15-1	100	%	70-130	09.12.2020 02:19	



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-3 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-003 Date Collected: 09.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 09.11.2020 12:00 Basis: Wet Weight
 Seq Number: 3136970

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.11.2020 15:05	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.11.2020 15:05	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.11.2020 15:05	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.11.2020 15:05	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.11.2020 15:05	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.11.2020 15:05	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.11.2020 15:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	81	%	70-130	09.11.2020 15:05		
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.11.2020 15:05		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-1 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-004 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.3	5.00	mg/kg	09.11.2020 19:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.12.2020 02:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.12.2020 02:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.12.2020 02:38	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.12.2020 02:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.12.2020 02:38	
o-Terphenyl	84-15-1	97	%	70-130	09.12.2020 02:38	



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-1 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-004 Date Collected: 09.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 09.11.2020 17:00 Basis: Wet Weight
 Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.12.2020 03:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.12.2020 03:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.12.2020 03:51	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.12.2020 03:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.12.2020 03:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.12.2020 03:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.12.2020 03:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	09.12.2020 03:51		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.12.2020 03:51		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-2 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-005 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.6	5.05	mg/kg	09.11.2020 19:15		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.12.2020 02:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.12.2020 02:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.12.2020 02:57	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.12.2020 02:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.12.2020 02:57	
o-Terphenyl	84-15-1	101	%	70-130	09.12.2020 02:57	



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-2 (3')**
Lab Sample Id: 672316-005

Matrix: Soil
Date Collected: 09.04.2020 00:00

Date Received: 09.11.2020 11:43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.11.2020 17:00

Basis: Wet Weight

Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.12.2020 04:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.12.2020 04:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.12.2020 04:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.12.2020 04:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.12.2020 04:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.12.2020 04:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.12.2020 04:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.12.2020 04:12		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.12.2020 04:12		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-3 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-006 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.4	5.02	mg/kg	09.11.2020 19:31		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.12.2020 03:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.12.2020 03:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.12.2020 03:16	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.12.2020 03:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.12.2020 03:16	
o-Terphenyl	84-15-1	94	%	70-130	09.12.2020 03:16	



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-3 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-006 Date Collected: 09.04.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 09.11.2020 17:00 Basis: Wet Weight
 Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.12.2020 04:32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.12.2020 04:32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.12.2020 04:32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.12.2020 04:32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.12.2020 04:32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.12.2020 04:32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.12.2020 04:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.12.2020 04:32		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.12.2020 04:32		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-4 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-007 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.8	4.98	mg/kg	09.11.2020 19:37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.12.2020 03:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.12.2020 03:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.12.2020 03:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.12.2020 03:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.12.2020 03:35	
o-Terphenyl	84-15-1	97	%	70-130	09.12.2020 03:35	



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-4 (3')**
Lab Sample Id: 672316-007

Matrix: Soil
Date Collected: 09.04.2020 00:00

Date Received: 09.11.2020 11:43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.11.2020 17:00

Basis: Wet Weight

Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.12.2020 04:53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.12.2020 04:53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.12.2020 04:53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.12.2020 04:53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.12.2020 04:53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.12.2020 04:53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.12.2020 04:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.12.2020 04:53		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.12.2020 04:53		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-5 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-008 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.2	4.97	mg/kg	09.11.2020 19:42		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.12.2020 03:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.12.2020 03:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.12.2020 03:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.12.2020 03:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.12.2020 03:54	
o-Terphenyl	84-15-1	94	%	70-130	09.12.2020 03:54	



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Tetra Tech- Midland, Midland, TX
COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-5 (3')**
 Lab Sample Id: 672316-008

Matrix: Soil
 Date Collected: 09.04.2020 00:00

Date Received: 09.11.2020 11:43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.11.2020 17:00

Basis: Wet Weight

Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.12.2020 05:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.12.2020 05:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.12.2020 05:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.12.2020 05:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.12.2020 05:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.12.2020 05:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.12.2020 05:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	09.12.2020 05:14		
4-Bromofluorobenzene	460-00-4	111	%	70-130	09.12.2020 05:14		



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Tetra Tech- Midland, Midland, TX COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-6 (3')** Matrix: Soil Date Received: 09.11.2020 11:43
 Lab Sample Id: 672316-009 Date Collected: 09.04.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 09.11.2020 17:45 Basis: Wet Weight
 Seq Number: 3136988

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	77.4	4.95	mg/kg	09.11.2020 19:47		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.11.2020 15:56 Basis: Wet Weight
 Seq Number: 3137013

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.12.2020 04:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.12.2020 04:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.12.2020 04:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.12.2020 04:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.12.2020 04:14	
o-Terphenyl	84-15-1	96	%	70-130	09.12.2020 04:14	



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Tetra Tech- Midland, Midland, TX
COG-Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-6 (3')**
 Lab Sample Id: 672316-009

Matrix: Soil
 Date Collected: 09.04.2020 00:00

Date Received: 09.11.2020 11:43

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.11.2020 17:00

Basis: Wet Weight

Seq Number: 3136969

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.12.2020 05:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.12.2020 05:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.12.2020 05:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.12.2020 05:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.12.2020 05:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.12.2020 05:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.12.2020 05:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	09.12.2020 05:34		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.12.2020 05:34		

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



Tetra Tech- Midland
COG-Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: Chloride by EPA 300

Seq Number: 3136988

MB Sample Id: 7711204-1-BLK

Matrix: Solid

LCS Sample Id: 7711204-1-BKS

Prep Method: E300P

Date Prep: 09.11.2020

LCSD Sample Id: 7711204-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	265	106	264	106	90-110	0	20	mg/kg	09.11.2020 18:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3136988

Parent Sample Id: 672184-002

Matrix: Soil

MS Sample Id: 672184-002 S

Prep Method: E300P

Date Prep: 09.11.2020

MSD Sample Id: 672184-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.4	248	281	109	282	110	90-110	0	20	mg/kg	09.11.2020 20:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3136988

Parent Sample Id: 672316-001

Matrix: Soil

MS Sample Id: 672316-001 S

Prep Method: E300P

Date Prep: 09.11.2020

MSD Sample Id: 672316-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	75.3	249	338	106	337	105	90-110	0	20	mg/kg	09.11.2020 18:49	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137013

MB Sample Id: 7711181-1-BLK

Matrix: Solid

LCS Sample Id: 7711181-1-BKS

Prep Method: SW8015P

Date Prep: 09.11.2020

LCSD Sample Id: 7711181-1-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	982	98	957	96	70-130	3	20	mg/kg	09.12.2020 00:25	
Diesel Range Organics (DRO)	<50.0	1000	997	100	970	97	70-130	3	20	mg/kg	09.12.2020 00:25	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		100		89		70-130	%	09.12.2020 00:25
o-Terphenyl	102		101		97		70-130	%	09.12.2020 00:25

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137013

Matrix: Solid

MB Sample Id: 7711181-1-BLK

Prep Method: SW8015P

Date Prep: 09.11.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.12.2020 00:06	

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

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

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

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



Tetra Tech- Midland
COG-Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137013

Parent Sample Id: 672316-001

Matrix: Soil

MS Sample Id: 672316-001 S

Prep Method: SW8015P

Date Prep: 09.11.2020

MSD Sample Id: 672316-001 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	1060	106	936	94	70-130	12	20	mg/kg	09.12.2020 01:22	
Diesel Range Organics (DRO)	<49.9	997	1060	106	936	94	70-130	12	20	mg/kg	09.12.2020 01:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		100		70-130	%	09.12.2020 01:22
o-Terphenyl	123		105		70-130	%	09.12.2020 01:22

Analytical Method: BTEX by EPA 8021B

Seq Number: 3136970

MB Sample Id: 7711208-1-BLK

Matrix: Solid

LCS Sample Id: 7711208-1-BKS

Prep Method: SW5035A

Date Prep: 09.11.2020

LCSD Sample Id: 7711208-1-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	0.103	103	0.119	119	70-130	14	35	mg/kg	09.11.2020 12:44	
Toluene	<0.00200	0.100	0.0969	97	0.113	113	70-130	15	35	mg/kg	09.11.2020 12:44	
Ethylbenzene	<0.00200	0.100	0.104	104	0.123	123	70-130	17	35	mg/kg	09.11.2020 12:44	
m,p-Xylenes	<0.00400	0.200	0.217	109	0.258	129	70-130	17	35	mg/kg	09.11.2020 12:44	
o-Xylene	<0.00200	0.100	0.103	103	0.124	124	70-130	19	35	mg/kg	09.11.2020 12:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		103		70-130	%	09.11.2020 12:44
4-Bromofluorobenzene	79		109		128		70-130	%	09.11.2020 12:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3136969

MB Sample Id: 7711207-1-BLK

Matrix: Solid

LCS Sample Id: 7711207-1-BKS

Prep Method: SW5035A

Date Prep: 09.11.2020

LCSD Sample Id: 7711207-1-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	0.115	115	0.115	115	70-130	0	35	mg/kg	09.11.2020 19:52	
Toluene	<0.00200	0.100	0.113	113	0.113	113	70-130	0	35	mg/kg	09.11.2020 19:52	
Ethylbenzene	<0.00200	0.100	0.104	104	0.104	104	70-130	0	35	mg/kg	09.11.2020 19:52	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.204	102	70-130	0	35	mg/kg	09.11.2020 19:52	
o-Xylene	<0.00200	0.100	0.104	104	0.103	103	70-130	1	35	mg/kg	09.11.2020 19:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	90		105		106		70-130	%	09.11.2020 19:52
4-Bromofluorobenzene	88		101		98		70-130	%	09.11.2020 19:52

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

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

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

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



Tetra Tech- Midland
COG-Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3136970

Parent Sample Id: 672316-003

Matrix: Soil

MS Sample Id: 672316-003 S

Prep Method: SW5035A

Date Prep: 09.11.2020

MSD Sample Id: 672316-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.106	105	70-130	2	35	mg/kg	09.11.2020 13:25	
Toluene	<0.00200	0.100	0.0998	100	0.102	101	70-130	2	35	mg/kg	09.11.2020 13:25	
Ethylbenzene	<0.00200	0.100	0.109	109	0.112	111	70-130	3	35	mg/kg	09.11.2020 13:25	
m,p-Xylenes	<0.00400	0.200	0.232	116	0.236	117	70-130	2	35	mg/kg	09.11.2020 13:25	
o-Xylene	<0.00200	0.100	0.111	111	0.113	112	70-130	2	35	mg/kg	09.11.2020 13:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		70-130	%	09.11.2020 13:25
4-Bromofluorobenzene	129		128		70-130	%	09.11.2020 13:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3136969

Parent Sample Id: 672184-002

Matrix: Soil

MS Sample Id: 672184-002 S

Prep Method: SW5035A

Date Prep: 09.11.2020

MSD Sample Id: 672184-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00455	0.0992	0.105	101	0.104	100	70-130	1	35	mg/kg	09.11.2020 20:34	
Toluene	0.0291	0.0992	0.102	73	0.103	74	70-130	1	35	mg/kg	09.11.2020 20:34	
Ethylbenzene	0.00877	0.0992	0.0931	85	0.0921	84	70-130	1	35	mg/kg	09.11.2020 20:34	
m,p-Xylenes	0.00788	0.198	0.183	88	0.181	87	70-130	1	35	mg/kg	09.11.2020 20:34	
o-Xylene	0.00280	0.0992	0.0926	91	0.0916	89	70-130	1	35	mg/kg	09.11.2020 20:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		102		70-130	%	09.11.2020 20:34
4-Bromofluorobenzene	102		101		70-130	%	09.11.2020 20:34

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.

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

Page 1 of 1

Client Name:		COG				Site Manager:		Mike Carmona			
Project Name:		Goldeneye 18 Federal Com #1H (10.15.19)									
Project Location: (county, state)		Eddy County, New Mexico				Project #:		212C-MD-02306			
Invoice to:		Ike Tavaréz									
Receiving Laboratory:		Xenco Labs				Sampler Signature:		Devin D			
Comments:											

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE				
		DATE	TIME									
	Bottom Hole-1 (3)	9/4/2020		X				X			1	
	Bottom Hole-2 (3)	9/4/2020		X				X			1	
	Bottom Hole-3 (3)	9/4/2020		X				X			1	
	SW-1 (3)	9/4/2020		X				X			1	
	SW-2 (3)	9/4/2020		X				X			1	
	SW-3 (3)	9/4/2020		X				X			1	
	SW-4 (3)	9/4/2020		X				X			1	
	SW-5 (3)	9/4/2020		X				X			1	
	SW-6 (3)	9/4/2020										

Relinquished by:		Date:		Time:		Received by:		Date:		Time:	
Mike Carmona		9/1/2020		1143		Devin D		9/1/2020		1143	
Relinquished by:		Date:		Time:		Received by:		Date:		Time:	
Relinquished by:		Date:		Time:		Received by:		Date:		Time:	

[illegible]

LAB USE ONLY

5.0/5.2
0.4TBz

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 09.11.2020 11.43.00 AM

Work Order #: 672316

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.2
#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: 09.11.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.11.2020

Certificate of Analysis Summary 672801



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 09.17.2020 11:32**Report Date:** 09.21.2020 12:01**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672801-001	672801-002	672801-003	672801-004	672801-005	672801-006
	<i>Field Id:</i>	Bottom Hole-4 (3.5')	Bottom Hole-5 (3.5')	Bottom Hole-6 (3.5')	Bottom Hole-7 (3.5')	Bottom Hole-8 (3.5')	Bottom Hole-9 (6")
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45
	<i>Analyzed:</i>	09.17.2020 15:58	09.17.2020 16:19	09.17.2020 16:39	09.17.2020 17:00	09.17.2020 17:20	09.17.2020 17:41
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00397 0.00397	<0.00400 0.00400	<0.00399 0.00399	<0.00396 0.00396	<0.00400 0.00400	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50
	<i>Analyzed:</i>	09.17.2020 23:52	09.17.2020 23:57	09.18.2020 00:03	09.18.2020 00:08	09.18.2020 00:13	09.18.2020 00:29
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		113 4.98	122 5.04	106 4.97	102 5.00	96.1 4.96	<5.05 5.05
TPH by SW8015 Mod	<i>Extracted:</i>	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00
	<i>Analyzed:</i>	09.17.2020 20:00	09.17.2020 20:58	09.17.2020 21:17	09.17.2020 21:37	09.17.2020 21:56	09.17.2020 22:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<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	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672801



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 09.17.2020 11:32**Report Date:** 09.21.2020 12:01**Project Manager:** Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672801-007	672801-008	672801-009	672801-010	672801-011	672801-012
	<i>Field Id:</i>	Bottom Hole-10 (6")	Bottom Hole-11 (2.5')	SW-7 (3.5')	SW-8 (3.5')	SW-9 (3.5')	SW-10 (3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45
	<i>Analyzed:</i>	09.17.2020 18:01	09.17.2020 18:22	09.17.2020 19:46	09.17.2020 20:06	09.17.2020 20:27	09.17.2020 20:47
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00401 0.00401	<0.00398 0.00398	<0.00403 0.00403
o-Xylene		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50	09.17.2020 16:50
	<i>Analyzed:</i>	09.18.2020 00:34	09.18.2020 00:50	09.18.2020 00:55	09.18.2020 01:00	09.18.2020 01:06	09.18.2020 01:11
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		190 4.98	170 4.97	576 25.0	105 5.00	111 5.00	91.8 5.00
TPH by SW8015 Mod	<i>Extracted:</i>	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00
	<i>Analyzed:</i>	09.17.2020 22:35	09.18.2020 10:12	09.17.2020 23:13	09.17.2020 23:33	09.18.2020 00:11	09.18.2020 00:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<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	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672801



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 09.17.2020 11:32
Report Date: 09.21.2020 12:01
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672801-013	672801-014	672801-015	672801-016	672801-017	672801-018
	<i>Field Id:</i>	SW-11 (3.5')	SW-12 (3.5')	SW-13 (3.5')	SW-14 (3.5')	SW-15 (3.5')	SW-16 (3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45
	<i>Analyzed:</i>	09.17.2020 21:08	09.17.2020 21:28	09.17.2020 21:49	09.17.2020 22:09	09.17.2020 22:30	09.17.2020 22:50
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Toluene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
m,p-Xylenes		<0.00404 0.00404	<0.00402 0.00402	<0.00402 0.00402	<0.00397 0.00397	<0.00398 0.00398	<0.00404 0.00404
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Total BTEX		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	09.17.2020 16:50	09.17.2020 16:50	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30
	<i>Analyzed:</i>	09.18.2020 01:16	09.18.2020 01:21	09.18.2020 10:43	09.18.2020 10:59	09.18.2020 11:04	09.18.2020 11:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		126 5.04	99.1 4.98	89.4 5.04	103 4.98	102 5.00	108 5.05
TPH by SW8015 Mod	<i>Extracted:</i>	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 15:00
	<i>Analyzed:</i>	09.18.2020 00:50	09.18.2020 01:10	09.18.2020 01:29	09.18.2020 01:48	09.18.2020 02:08	09.18.2020 02:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<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	<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	<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	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672801

Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
 Contact: Mike Carmona
 Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 09.17.2020 11:32

Report Date: 09.21.2020 12:01

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672801-019	672801-020	672801-021	672801-022	672801-023	672801-024
	<i>Field Id:</i>	SW-17 (3.5')	SW-18 (3.5')	SW-19 (6")	SW-20 (6")	SW-21 (6")	SW-22 (6")
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45
	<i>Analyzed:</i>	09.17.2020 15:41	09.17.2020 16:02	09.17.2020 16:22	09.17.2020 16:43	09.17.2020 17:03	09.17.2020 17:24
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399	<0.00403 0.00403	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30
	<i>Analyzed:</i>	09.18.2020 11:15	09.18.2020 11:31	09.18.2020 11:36	09.18.2020 11:41	09.18.2020 11:46	09.18.2020 11:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		107 4.99	101 4.95	<4.95 4.95	<5.02 5.02	<4.95 4.95	<5.05 5.05
TPH by SW8015 Mod	<i>Extracted:</i>	09.17.2020 15:00	09.17.2020 15:00	09.17.2020 12:00	09.17.2020 12:00	09.17.2020 12:00	09.17.2020 12:00
	<i>Analyzed:</i>	09.18.2020 02:46	09.18.2020 03:06	09.17.2020 16:07	09.17.2020 16:26	09.17.2020 16:46	09.17.2020 17:05
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<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	<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	<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	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 672801



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Thu 09.17.2020 11:32
Report Date: 09.21.2020 12:01
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672801-025	672801-026	672801-027	672801-028		
	<i>Field Id:</i>	SW-23 (2.5')	SW-24 (2.5')	SW-25 (2.5')	SW-26 (2.5')		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00	09.11.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45	09.17.2020 11:45		
	<i>Analyzed:</i>	09.17.2020 17:44	09.17.2020 18:05	09.17.2020 18:25	09.17.2020 18:46		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198		
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198		
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198		
m,p-Xylenes		<0.00399 0.00399	<0.00396 0.00396	<0.00397 0.00397	<0.00397 0.00397		
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198		
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198		
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00198 0.00198		
Chloride by EPA 300	<i>Extracted:</i>	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30	09.18.2020 09:30		
	<i>Analyzed:</i>	09.18.2020 11:57	09.18.2020 12:13	09.18.2020 12:18	09.18.2020 12:34		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		196 4.99	181 4.96	203 4.99	198 5.03		
TPH by SW8015 Mod	<i>Extracted:</i>	09.17.2020 12:00	09.17.2020 12:00	09.17.2020 12:00	09.17.2020 12:00		
	<i>Analyzed:</i>	09.17.2020 17:24	09.17.2020 17:44	09.17.2020 18:03	09.17.2020 18:23		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<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	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<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	<49.9 49.9		

BRL - Below Reporting Limit

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

Analytical Report 672801

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Goldeneye 18 Federal Com #1H (10.15.19)

212C-MD-02306

09.21.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.21.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **672801**

Goldeneye 18 Federal Com #1H (10.15.19)

Project Address: Eddy County, New Mexico

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 Eurofins Xenco, LLC Report Number(s) 672801. 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 Eurofins Xenco, LLC. 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. 672801 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 Eurofins Xenco, LLC 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 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole-4 (3.5')	S	09.11.2020 00:00		672801-001
Bottom Hole-5 (3.5')	S	09.11.2020 00:00		672801-002
Bottom Hole-6 (3.5')	S	09.11.2020 00:00		672801-003
Bottom Hole-7 (3.5')	S	09.11.2020 00:00		672801-004
Bottom Hole-8 (3.5')	S	09.11.2020 00:00		672801-005
Bottom Hole-9 (6")	S	09.11.2020 00:00		672801-006
Bottom Hole-10 (6")	S	09.11.2020 00:00		672801-007
Bottom Hole-11 (2.5')	S	09.11.2020 00:00		672801-008
SW-7 (3.5')	S	09.11.2020 00:00		672801-009
SW-8 (3.5')	S	09.11.2020 00:00		672801-010
SW-9 (3.5')	S	09.11.2020 00:00		672801-011
SW-10 (3.5')	S	09.11.2020 00:00		672801-012
SW-11 (3.5')	S	09.11.2020 00:00		672801-013
SW-12 (3.5')	S	09.11.2020 00:00		672801-014
SW-13 (3.5')	S	09.11.2020 00:00		672801-015
SW-14 (3.5')	S	09.11.2020 00:00		672801-016
SW-15 (3.5')	S	09.11.2020 00:00		672801-017
SW-16 (3.5')	S	09.11.2020 00:00		672801-018
SW-17 (3.5')	S	09.11.2020 00:00		672801-019
SW-18 (3.5')	S	09.11.2020 00:00		672801-020
SW-19 (6")	S	09.11.2020 00:00		672801-021
SW-20 (6")	S	09.11.2020 00:00		672801-022
SW-21 (6")	S	09.11.2020 00:00		672801-023
SW-22 (6")	S	09.11.2020 00:00		672801-024
SW-23 (2.5')	S	09.11.2020 00:00		672801-025
SW-24 (2.5')	S	09.11.2020 00:00		672801-026
SW-25 (2.5')	S	09.11.2020 00:00		672801-027
SW-26 (2.5')	S	09.11.2020 00:00		672801-028



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project ID: 212C-MD-02306
Work Order Number(s): 672801

Report Date: 09.21.2020
Date Received: 09.17.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3137398 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 672755-001 SD.

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

Samples affected are: 672755-001 S,672755-001 SD.



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-4 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-001

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	113	4.98	mg/kg	09.17.2020 23:52		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 20:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 20:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 20:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 20:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.17.2020 20:00	
o-Terphenyl	84-15-1	91	%	70-130	09.17.2020 20:00	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-4 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-001

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.17.2020 15:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.17.2020 15:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.17.2020 15:58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.17.2020 15:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.17.2020 15:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.17.2020 15:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.17.2020 15:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 15:58		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.17.2020 15:58		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-5 (3.5')** Matrix: Soil Date Received: 09.17.2020 11:32
 Lab Sample Id: 672801-002 Date Collected: 09.11.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.17.2020 16:50 Basis: Wet Weight
 Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	122	5.04	mg/kg	09.17.2020 23:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.17.2020 15:00 Basis: Wet Weight
 Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 20:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 20:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 20:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 20:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.17.2020 20:58	
o-Terphenyl	84-15-1	89	%	70-130	09.17.2020 20:58	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-5 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-002

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 16:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 16:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 16:19	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.17.2020 16:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 16:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 16:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 16:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.17.2020 16:19		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.17.2020 16:19		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-6 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-003

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	4.97	mg/kg	09.18.2020 00:03		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 21:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 21:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 21:17	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 21:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.17.2020 21:17	
o-Terphenyl	84-15-1	85	%	70-130	09.17.2020 21:17	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-6 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-003

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 16:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 16:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 16:39	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.17.2020 16:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 16:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 16:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 16:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.17.2020 16:39		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 16:39		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-7 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-004

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.00	mg/kg	09.18.2020 00:08		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 21:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 21:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 21:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 21:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.17.2020 21:37	
o-Terphenyl	84-15-1	85	%	70-130	09.17.2020 21:37	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-7 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-004

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.17.2020 17:00	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.17.2020 17:00	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.17.2020 17:00	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.17.2020 17:00	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.17.2020 17:00	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.17.2020 17:00	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.17.2020 17:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.17.2020 17:00		
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.17.2020 17:00		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-8 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-005

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.1	4.96	mg/kg	09.18.2020 00:13		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 21:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 21:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 21:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 21:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.17.2020 21:56	
o-Terphenyl	84-15-1	83	%	70-130	09.17.2020 21:56	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-8 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-005

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 17:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 17:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 17:20	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.17.2020 17:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 17:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 17:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 17:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 17:20		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 17:20		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-9 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-006

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	09.18.2020 00:29	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.17.2020 22:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.17.2020 22:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.17.2020 22:15	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.17.2020 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.17.2020 22:15	
o-Terphenyl	84-15-1	94	%	70-130	09.17.2020 22:15	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-9 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-006

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.17.2020 17:41	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.17.2020 17:41	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.17.2020 17:41	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.17.2020 17:41	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.17.2020 17:41	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.17.2020 17:41	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.17.2020 17:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 17:41		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 17:41		



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-10 (6")** Matrix: Soil Date Received: 09.17.2020 11:32
 Lab Sample Id: 672801-007 Date Collected: 09.11.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.17.2020 16:50 Basis: Wet Weight
 Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	190	4.98	mg/kg	09.18.2020 00:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.17.2020 15:00 Basis: Wet Weight
 Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 22:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 22:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 22:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 22:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.17.2020 22:35	
o-Terphenyl	84-15-1	84	%	70-130	09.17.2020 22:35	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

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

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-007

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.17.2020 18:01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.17.2020 18:01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.17.2020 18:01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.17.2020 18:01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.17.2020 18:01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.17.2020 18:01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.17.2020 18:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 18:01		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 18:01		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-11 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-008

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	170	4.97	mg/kg	09.18.2020 00:50		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.18.2020 10:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.18.2020 10:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.18.2020 10:12	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.18.2020 10:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	09.18.2020 10:12	
o-Terphenyl	84-15-1	96	%	70-130	09.18.2020 10:12	



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-11 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-008

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.17.2020 18:22	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.17.2020 18:22	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.17.2020 18:22	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.17.2020 18:22	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.17.2020 18:22	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.17.2020 18:22	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.17.2020 18:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.17.2020 18:22		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.17.2020 18:22		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-7 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-009

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	576	25.0	mg/kg	09.18.2020 00:55		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 23:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 23:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 23:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 23:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.17.2020 23:13	
o-Terphenyl	84-15-1	90	%	70-130	09.17.2020 23:13	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-7 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-009

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 19:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 19:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 19:46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.17.2020 19:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 19:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 19:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 19:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.17.2020 19:46		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.17.2020 19:46		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-8 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-010

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	5.00	mg/kg	09.18.2020 01:00		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 23:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 23:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 23:33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 23:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.17.2020 23:33	
o-Terphenyl	84-15-1	90	%	70-130	09.17.2020 23:33	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-8 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-010

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 20:06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 20:06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 20:06	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.17.2020 20:06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 20:06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 20:06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 20:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 20:06		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 20:06		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-9 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-011

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	5.00	mg/kg	09.18.2020 01:06		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 00:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 00:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 00:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 00:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.18.2020 00:11	
o-Terphenyl	84-15-1	91	%	70-130	09.18.2020 00:11	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-9 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-011

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.17.2020 20:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.17.2020 20:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.17.2020 20:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.17.2020 20:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.17.2020 20:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.17.2020 20:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.17.2020 20:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	09.17.2020 20:27		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.17.2020 20:27		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-10 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-012

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	91.8	5.00	mg/kg	09.18.2020 01:11		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 00:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 00:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 00:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 00:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.18.2020 00:31	
o-Terphenyl	84-15-1	97	%	70-130	09.18.2020 00:31	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-10 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-012

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.17.2020 20:47	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.17.2020 20:47	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.17.2020 20:47	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.17.2020 20:47	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.17.2020 20:47	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.17.2020 20:47	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.17.2020 20:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.17.2020 20:47		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 20:47		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-11 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-013

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	126	5.04	mg/kg	09.18.2020 01:16		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.18.2020 00:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.18.2020 00:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.18.2020 00:50	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.18.2020 00:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.18.2020 00:50	
o-Terphenyl	84-15-1	101	%	70-130	09.18.2020 00:50	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-11 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-013

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.17.2020 21:08	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.17.2020 21:08	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.17.2020 21:08	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.17.2020 21:08	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.17.2020 21:08	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.17.2020 21:08	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.17.2020 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 21:08	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 21:08	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-12 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-014

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.17.2020 16:50

Basis: Wet Weight

Seq Number: 3137492

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	99.1	4.98	mg/kg	09.18.2020 01:21		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 01:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 01:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 01:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 01:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.18.2020 01:10	
o-Terphenyl	84-15-1	86	%	70-130	09.18.2020 01:10	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-12 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-014

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.17.2020 21:28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.17.2020 21:28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.17.2020 21:28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.17.2020 21:28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.17.2020 21:28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.17.2020 21:28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.17.2020 21:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.17.2020 21:28		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.17.2020 21:28		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-13 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-015

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	89.4	5.04	mg/kg	09.18.2020 10:43		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.18.2020 01:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.18.2020 01:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.18.2020 01:29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.18.2020 01:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.18.2020 01:29	
o-Terphenyl	84-15-1	90	%	70-130	09.18.2020 01:29	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-13 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-015

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.17.2020 21:49	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.17.2020 21:49	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.17.2020 21:49	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.17.2020 21:49	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.17.2020 21:49	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.17.2020 21:49	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.17.2020 21:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 21:49		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.17.2020 21:49		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-14 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-016

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	4.98	mg/kg	09.18.2020 10:59		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 01:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 01:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 01:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 01:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.18.2020 01:48	
o-Terphenyl	84-15-1	94	%	70-130	09.18.2020 01:48	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-14 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-016

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.17.2020 22:09	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.17.2020 22:09	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.17.2020 22:09	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.17.2020 22:09	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.17.2020 22:09	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.17.2020 22:09	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.17.2020 22:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 22:09	
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.17.2020 22:09	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-15 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-017

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	5.00	mg/kg	09.18.2020 11:04		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 02:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 02:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 02:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 02:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.18.2020 02:08	
o-Terphenyl	84-15-1	91	%	70-130	09.18.2020 02:08	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-15 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-017

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.17.2020 22:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.17.2020 22:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.17.2020 22:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.17.2020 22:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.17.2020 22:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.17.2020 22:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.17.2020 22:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 22:30		
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.17.2020 22:30		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-16 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-018

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	5.05	mg/kg	09.18.2020 11:10		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 02:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 02:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 02:27	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 02:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.18.2020 02:27	
o-Terphenyl	84-15-1	96	%	70-130	09.18.2020 02:27	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-16 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-018

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137398

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.17.2020 22:50	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.17.2020 22:50	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.17.2020 22:50	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.17.2020 22:50	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.17.2020 22:50	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.17.2020 22:50	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.17.2020 22:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 22:50	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.17.2020 22:50	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-17 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-019

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	4.99	mg/kg	09.18.2020 11:15		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.18.2020 02:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.18.2020 02:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.18.2020 02:46	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.18.2020 02:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.18.2020 02:46	
o-Terphenyl	84-15-1	97	%	70-130	09.18.2020 02:46	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-17 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-019

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 15:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 15:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 15:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.17.2020 15:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 15:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 15:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 15:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 15:41		
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.17.2020 15:41		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-18 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-020

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	101	4.95	mg/kg	09.18.2020 11:31		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 15:00

Basis: Wet Weight

Seq Number: 3137515

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.18.2020 03:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.18.2020 03:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.18.2020 03:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.18.2020 03:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.18.2020 03:06	
o-Terphenyl	84-15-1	98	%	70-130	09.18.2020 03:06	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-18 (3.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-020

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.17.2020 16:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.17.2020 16:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.17.2020 16:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.17.2020 16:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.17.2020 16:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.17.2020 16:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.17.2020 16:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.17.2020 16:02		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.17.2020 16:02		



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-19 (6")** Matrix: Soil Date Received: 09.17.2020 11:32
 Lab Sample Id: 672801-021 Date Collected: 09.11.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.18.2020 09:30 Basis: Wet Weight
 Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	09.18.2020 11:36	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.17.2020 12:00 Basis: Wet Weight
 Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 16:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 16:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 16:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 16:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.17.2020 16:07	
o-Terphenyl	84-15-1	93	%	70-130	09.17.2020 16:07	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-19 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-021

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 16:22	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 16:22	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 16:22	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.17.2020 16:22	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 16:22	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 16:22	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 16:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	09.17.2020 16:22		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.17.2020 16:22		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-20 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-022

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	09.18.2020 11:41	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 16:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 16:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 16:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 16:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.17.2020 16:26	
o-Terphenyl	84-15-1	91	%	70-130	09.17.2020 16:26	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-20 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-022

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 16:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 16:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 16:43	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.17.2020 16:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 16:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 16:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 16:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	09.17.2020 16:43		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.17.2020 16:43		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-21 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-023

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	09.18.2020 11:46	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 16:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 16:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 16:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 16:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.17.2020 16:46	
o-Terphenyl	84-15-1	88	%	70-130	09.17.2020 16:46	



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-21 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-023

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.17.2020 17:03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.17.2020 17:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.17.2020 17:03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.17.2020 17:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.17.2020 17:03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.17.2020 17:03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.17.2020 17:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	09.17.2020 17:03		
4-Bromofluorobenzene	460-00-4	85	%	70-130	09.17.2020 17:03		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-22 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-024

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.05	5.05	mg/kg	09.18.2020 11:52	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 17:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 17:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 17:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 17:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.17.2020 17:05	
o-Terphenyl	84-15-1	87	%	70-130	09.17.2020 17:05	



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-22 (6")**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-024

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 17:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 17:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 17:24	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.17.2020 17:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 17:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 17:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 17:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.17.2020 17:24		
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.17.2020 17:24		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-23 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-025

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	196	4.99	mg/kg	09.18.2020 11:57		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 17:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 17:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 17:24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 17:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.17.2020 17:24	
o-Terphenyl	84-15-1	96	%	70-130	09.17.2020 17:24	



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-23 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-025

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.17.2020 17:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.17.2020 17:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.17.2020 17:44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.17.2020 17:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.17.2020 17:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.17.2020 17:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.17.2020 17:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	115	%	70-130	09.17.2020 17:44		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.17.2020 17:44		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-24 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-026

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	181	4.96	mg/kg	09.18.2020 12:13		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.17.2020 17:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.17.2020 17:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.17.2020 17:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.17.2020 17:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.17.2020 17:44	
o-Terphenyl	84-15-1	89	%	70-130	09.17.2020 17:44	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-24 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-026

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.17.2020 18:05	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.17.2020 18:05	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.17.2020 18:05	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.17.2020 18:05	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.17.2020 18:05	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.17.2020 18:05	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.17.2020 18:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.17.2020 18:05		
4-Bromofluorobenzene	460-00-4	118	%	70-130	09.17.2020 18:05		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-25 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-027

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	203	4.99	mg/kg	09.18.2020 12:18		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 18:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 18:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 18:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.17.2020 18:03	
o-Terphenyl	84-15-1	90	%	70-130	09.17.2020 18:03	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-25 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-027

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.17.2020 18:25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.17.2020 18:25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.17.2020 18:25	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.17.2020 18:25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.17.2020 18:25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.17.2020 18:25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.17.2020 18:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.17.2020 18:25		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.17.2020 18:25		



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-26 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-028

Date Collected: 09.11.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 09:30

Basis: Wet Weight

Seq Number: 3137631

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	198	5.03	mg/kg	09.18.2020 12:34		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.17.2020 12:00

Basis: Wet Weight

Seq Number: 3137526

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.17.2020 18:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.17.2020 18:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.17.2020 18:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.17.2020 18:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.17.2020 18:23	
o-Terphenyl	84-15-1	87	%	70-130	09.17.2020 18:23	



Certificate of Analytical Results 672801

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-26 (2.5')**

Matrix: Soil

Date Received: 09.17.2020 11:32

Lab Sample Id: 672801-028

Date Collected: 09.11.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.17.2020 11:45

Basis: Wet Weight

Seq Number: 3137472

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.17.2020 18:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.17.2020 18:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.17.2020 18:46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.17.2020 18:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.17.2020 18:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.17.2020 18:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.17.2020 18:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.17.2020 18:46	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.17.2020 18:46	

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: Chloride by EPA 300

Seq Number: 3137492

MB Sample Id: 7711564-1-BLK

Matrix: Solid

LCS Sample Id: 7711564-1-BKS

Prep Method: E300P

Date Prep: 09.17.2020

LCSD Sample Id: 7711564-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	257	103	258	103	90-110	0	20	mg/kg	09.17.2020 22:49	

Analytical Method: Chloride by EPA 300

Seq Number: 3137631

MB Sample Id: 7711581-1-BLK

Matrix: Solid

LCS Sample Id: 7711581-1-BKS

Prep Method: E300P

Date Prep: 09.18.2020

LCSD Sample Id: 7711581-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	257	103	256	102	90-110	0	20	mg/kg	09.18.2020 10:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3137492

Parent Sample Id: 672757-008

Matrix: Soil

MS Sample Id: 672757-008 S

Prep Method: E300P

Date Prep: 09.17.2020

MSD Sample Id: 672757-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	320	250	595	110	586	106	90-110	2	20	mg/kg	09.17.2020 23:05	

Analytical Method: Chloride by EPA 300

Seq Number: 3137492

Parent Sample Id: 672801-005

Matrix: Soil

MS Sample Id: 672801-005 S

Prep Method: E300P

Date Prep: 09.17.2020

MSD Sample Id: 672801-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	96.1	248	366	109	360	106	90-110	2	20	mg/kg	09.18.2020 00:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3137631

Parent Sample Id: 672801-015

Matrix: Soil

MS Sample Id: 672801-015 S

Prep Method: E300P

Date Prep: 09.18.2020

MSD Sample Id: 672801-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	89.4	252	350	103	350	103	90-110	0	20	mg/kg	09.18.2020 10:49	

Analytical Method: Chloride by EPA 300

Seq Number: 3137631

Parent Sample Id: 672801-025

Matrix: Soil

MS Sample Id: 672801-025 S

Prep Method: E300P

Date Prep: 09.18.2020

MSD Sample Id: 672801-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	196	250	459	105	462	106	90-110	1	20	mg/kg	09.18.2020 12:02	

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

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

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

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137526

MB Sample Id: 7711572-1-BLK

Matrix: Solid

LCS Sample Id: 7711572-1-BKS

Prep Method: SW8015P

Date Prep: 09.17.2020

LCSD Sample Id: 7711572-1-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	1010	101	1130	113	70-130	11	20	mg/kg	09.17.2020 10:37	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1150	115	70-130	11	20	mg/kg	09.17.2020 10:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		100		113		70-130	%	09.17.2020 10:37
o-Terphenyl	88		103		112		70-130	%	09.17.2020 10:37

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137515

MB Sample Id: 7711575-1-BLK

Matrix: Solid

LCS Sample Id: 7711575-1-BKS

Prep Method: SW8015P

Date Prep: 09.17.2020

LCSD Sample Id: 7711575-1-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	1030	103	987	99	70-130	4	20	mg/kg	09.17.2020 19:21	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1010	101	70-130	4	20	mg/kg	09.17.2020 19:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		106		97		70-130	%	09.17.2020 19:21
o-Terphenyl	103		105		102		70-130	%	09.17.2020 19:21

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137526

Matrix: Solid

MB Sample Id: 7711572-1-BLK

Prep Method: SW8015P

Date Prep: 09.17.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.17.2020 10:18	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137515

Matrix: Solid

MB Sample Id: 7711575-1-BLK

Prep Method: SW8015P

Date Prep: 09.17.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.17.2020 19:02	

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

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

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

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137526

Parent Sample Id: 672757-002

Matrix: Soil

MS Sample Id: 672757-002 S

Prep Method: SW8015P

Date Prep: 09.17.2020

MSD Sample Id: 672757-002 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)	80.0	997	1020	94	1010	93	70-130	1	20	mg/kg	09.17.2020 11:35	
Diesel Range Organics (DRO)	1300	997	1890	59	1840	54	70-130	3	20	mg/kg	09.17.2020 11:35	X

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		98		70-130	%	09.17.2020 11:35
o-Terphenyl	111		109		70-130	%	09.17.2020 11:35

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137515

Parent Sample Id: 672801-001

Matrix: Soil

MS Sample Id: 672801-001 S

Prep Method: SW8015P

Date Prep: 09.17.2020

MSD Sample Id: 672801-001 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	941	94	937	94	70-130	0	20	mg/kg	09.17.2020 20:19	
Diesel Range Organics (DRO)	<49.9	997	942	94	926	93	70-130	2	20	mg/kg	09.17.2020 20:19	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		93		70-130	%	09.17.2020 20:19
o-Terphenyl	93		91		70-130	%	09.17.2020 20:19

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137398

MB Sample Id: 7711529-1-BLK

Matrix: Solid

LCS Sample Id: 7711529-1-BKS

Prep Method: SW5035A

Date Prep: 09.17.2020

LCSD Sample Id: 7711529-1-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	0.0908	91	0.0907	91	70-130	0	35	mg/kg	09.17.2020 10:32	
Toluene	<0.00200	0.100	0.0886	89	0.0890	89	70-130	0	35	mg/kg	09.17.2020 10:32	
Ethylbenzene	<0.00200	0.100	0.0887	89	0.0900	90	70-130	1	35	mg/kg	09.17.2020 10:32	
m,p-Xylenes	<0.00400	0.200	0.176	88	0.180	90	70-130	2	35	mg/kg	09.17.2020 10:32	
o-Xylene	<0.00200	0.100	0.0877	88	0.0894	89	70-130	2	35	mg/kg	09.17.2020 10:32	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		98		97		70-130	%	09.17.2020 10:32
4-Bromofluorobenzene	105		95		97		70-130	%	09.17.2020 10:32

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

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

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

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137472

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.17.2020

MB Sample Id: 7711574-1-BLK

LCS Sample Id: 7711574-1-BKS

LCSD Sample Id: 7711574-1-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	0.101	101	0.0995	100	70-130	1	35	mg/kg	09.17.2020 11:44	
Toluene	<0.00200	0.100	0.108	108	0.106	106	70-130	2	35	mg/kg	09.17.2020 11:44	
Ethylbenzene	<0.00200	0.100	0.115	115	0.112	112	70-130	3	35	mg/kg	09.17.2020 11:44	
m,p-Xylenes	<0.00400	0.200	0.232	116	0.223	112	70-130	4	35	mg/kg	09.17.2020 11:44	
o-Xylene	<0.00200	0.100	0.113	113	0.108	108	70-130	5	35	mg/kg	09.17.2020 11:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		100		100		70-130	%	09.17.2020 11:44
4-Bromofluorobenzene	73		115		110		70-130	%	09.17.2020 11:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137398

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.17.2020

Parent Sample Id: 672755-001

MS Sample Id: 672755-001 S

MSD Sample Id: 672755-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.144	0.994	0.168	2	0.147	0	70-130	13	35	mg/kg	09.17.2020 11:33	X
Toluene	1.73	0.994	0.0522	0	0.0687	0	70-130	27	35	mg/kg	09.17.2020 11:33	X
Ethylbenzene	4.31	0.994	6.34	204	6.46	217	70-130	2	35	mg/kg	09.17.2020 11:33	X
m,p-Xylenes	14.2	1.99	19.7	276	19.8	283	70-130	1	35	mg/kg	09.17.2020 11:33	X
o-Xylene	8.31	0.994	11.4	311	11.5	322	70-130	1	35	mg/kg	09.17.2020 11:33	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		14	**	70-130	%	09.17.2020 11:33
4-Bromofluorobenzene	367	**	256	**	70-130	%	09.17.2020 11:33

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137472

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.17.2020

Parent Sample Id: 672801-019

MS Sample Id: 672801-019 S

MSD Sample Id: 672801-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0766	76	0.0875	88	70-130	13	35	mg/kg	09.17.2020 14:01	
Toluene	<0.00202	0.101	0.0810	80	0.0968	97	70-130	18	35	mg/kg	09.17.2020 14:01	
Ethylbenzene	<0.00202	0.101	0.0842	83	0.102	102	70-130	19	35	mg/kg	09.17.2020 14:01	
m,p-Xylenes	<0.00403	0.202	0.167	83	0.202	102	70-130	19	35	mg/kg	09.17.2020 14:01	
o-Xylene	<0.00202	0.101	0.0803	80	0.0979	98	70-130	20	35	mg/kg	09.17.2020 14:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		96		70-130	%	09.17.2020 14:01
4-Bromofluorobenzene	102		112		70-130	%	09.17.2020 14:01

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

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

ANALYSIS REQUEST

(Circle or Specify Method No.)

072801

Client Name:

COG

Site Manager:

Mike Carmona

Project Name:

Goldeneye 18 Federal Com #1H (10.15.19)

Project #:

212C-MD-02306

Project Location:
(county, state)

Eddy County, New Mexico

Invoice to:

Ike Tavares

Sampler Signature:

Devin D

Receiving Laboratory:

Xenco Labs

Comments:

LAB #

LAB USE ONLY

SAMPLE IDENTIFICATION

SAMPLING

YEAR: 2020

DATE

TIME

WATER
SOILPRESERVATIVE
METHOD
HCL
HNO₃
ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B

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 300.0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

LAB USE ONLY

Sample Temperature

1.46/1.2

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED EDEX UPS Tracking #:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

ORIGINAL COPY

Analysis Request of Custody Record

Page 2 of 3



Tetra Tech, Inc.

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

Client Name:

COG

Site Manager:

Mike Carmona

Project Name:

Goldeneye 18 Federal Com #1H (10.15.19)

Project Location:

Eddy County, New Mexico

Project #:

212C-MD-02306

Invoice to:

Ike Tavaraz

Receiving Laboratory:

Xenco Labs

Sampler Signature:

Devin D

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR: 2020

DATE

TIME

MATRIX

PRESERVATIVE METHOD

WATER
SOIL
HCL
HNO₃
ICE# CONTAINERS
FILTERED (Y/N)

SW-10 (3.5')	9/1/2020		X							1	
SW-11 (3.5')	9/1/2020		X							1	
SW-12 (3.5')	9/1/2020		X							1	
SW-13 (3.5')	9/1/2020		X							1	
SW-14 (3.5')	9/1/2020		X							1	
SW-15 (3.5')	9/1/2020		X							1	
SW-16 (3.5')	9/1/2020		X							1	
SW-17 (3.5')	9/1/2020		X							1	
SW-18 (3.5')	9/1/2020		X							1	
SW-19 (6")	9/1/2020		X							1	

Siloquished by:

Date: Time:

Siloquished by:

Date: Time:

Siloquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

Sample Temperature

10/1/2

REMARKS:

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED INDEX UPS Tracking #:

ANALYSIS REQUEST

(Circle or Specify Method No.)

 BTEX 8021B
 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 300.0
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance

Hold

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 3 of 3

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

ORIGINAL COPY

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 09.17.2020 11.32.00 AM

Work Order #: 672801

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.2
#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

BTEX was in bulk container

* 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: 09.17.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.17.2020

Certificate of Analysis Summary 672983



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212c-md-02306

Date Received in Lab: Fri 09.18.2020 14:37

Contact: Mike Carmona

Report Date: 09.21.2020 14:55

Project Location: Eddy County, New Mexico

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	672983-001 Bottom Hole-12 (4') SOIL 09.17.2020 00:00	672983-002 Bottom Hole-13 (4') SOIL 09.17.2020 00:00	672983-003 Bottom Hole-14 (2.5') SOIL 09.17.2020 00:00	672983-004 Bottom Hole-15 (2.5') SOIL 09.17.2020 00:00	672983-005 Bottom Hole-16 (2.5') SOIL 09.17.2020 00:00	672983-006 Bottom Hole-17 (2.5') SOIL 09.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.18.2020 15:15 09.18.2020 18:10 mg/kg RL	09.18.2020 15:15 09.18.2020 18:31 mg/kg RL	09.18.2020 15:15 09.18.2020 18:51 mg/kg RL	09.18.2020 15:15 09.18.2020 19:12 mg/kg RL	09.18.2020 15:15 09.18.2020 19:32 mg/kg RL	09.18.2020 15:15 09.18.2020 19:53 mg/kg RL
Benzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00400 0.00400	<0.00403 0.00403	<0.00402 0.00402	<0.00402 0.00402	<0.00399 0.00399	<0.00402 0.00402
o-Xylene		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.18.2020 16:30 09.18.2020 21:08 mg/kg RL	09.18.2020 16:30 09.18.2020 21:14 mg/kg RL	09.18.2020 16:30 09.18.2020 21:19 mg/kg RL	09.18.2020 16:30 09.18.2020 21:35 mg/kg RL	09.18.2020 16:30 09.18.2020 21:40 mg/kg RL	09.18.2020 16:30 09.18.2020 21:45 mg/kg RL
Chloride		316 5.00	344 4.98	89.7 5.02	86.5 4.99	74.2 4.97	90.4 4.95
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.18.2020 17:00 09.18.2020 23:11 mg/kg RL	09.18.2020 17:00 09.19.2020 00:17 mg/kg RL	09.18.2020 17:00 09.19.2020 00:39 mg/kg RL	09.18.2020 17:00 09.19.2020 01:01 mg/kg RL	09.18.2020 17:00 09.19.2020 01:23 mg/kg RL	09.18.2020 17:00 09.19.2020 01:45 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

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672983



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212c-md-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 09.18.2020 14:37
Report Date: 09.21.2020 14:55
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	672983-007 Bottom Hole-18 (3.5')	672983-008 Bottom Hole-19 (3.5')	672983-009 SW-27 (4')	672983-010 SW-28 (4')	672983-011 SW-29 (4')	672983-012 SW-30 (4')
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.18.2020 15:15 09.18.2020 20:13 mg/kg RL	09.18.2020 15:15 09.18.2020 20:34 mg/kg RL	09.18.2020 15:15 09.18.2020 20:54 mg/kg RL	09.18.2020 15:15 09.18.2020 21:15 mg/kg RL	09.18.2020 15:15 09.18.2020 22:38 mg/kg RL	09.18.2020 15:15 09.18.2020 22:59 mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.18.2020 16:30 09.18.2020 21:51 mg/kg RL	09.18.2020 16:30 09.18.2020 21:56 mg/kg RL	09.18.2020 16:30 09.18.2020 22:01 mg/kg RL	09.18.2020 16:30 09.18.2020 22:17 mg/kg RL	09.18.2020 16:30 09.18.2020 22:22 mg/kg RL	09.18.2020 16:30 09.18.2020 22:38 mg/kg RL
Chloride		52.9 5.04	51.8 5.02	378 4.96	339 5.00	337 4.99	370 5.04
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.18.2020 17:00 09.19.2020 02:07 mg/kg RL	09.18.2020 17:00 09.19.2020 02:29 mg/kg RL	09.18.2020 17:00 09.19.2020 02:51 mg/kg RL	09.18.2020 17:00 09.19.2020 03:13 mg/kg RL	09.18.2020 17:00 09.19.2020 03:57 mg/kg RL	09.18.2020 17:00 09.19.2020 04:19 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<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	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672983



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212c-md-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 09.18.2020 14:37
Report Date: 09.21.2020 14:55
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672983-013	672983-014	672983-015	672983-016	672983-017	672983-018
	<i>Field Id:</i>	SW-31 (4')	SW-32 (4')	SW-33 (2.5')	SW-34 (2.5')	SW-35 (2.5')	SW-36 (2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.18.2020 15:15	09.18.2020 15:15	09.18.2020 15:15	09.18.2020 15:15	09.18.2020 15:15	09.18.2020 15:15
	<i>Analyzed:</i>	09.18.2020 23:19	09.18.2020 23:40	09.19.2020 00:00	09.19.2020 00:21	09.19.2020 00:41	09.19.2020 01:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00199 0.00199
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00199 0.00199
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00199 0.00199
m,p-Xylenes		<0.00397 0.00397	<0.00400 0.00400	<0.00398 0.00398	<0.00404 0.00404	<0.00403 0.00403	<0.00398 0.00398
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00199 0.00199
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00199 0.00199
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.18.2020 16:30	09.18.2020 16:30	09.18.2020 16:30	09.18.2020 16:30	09.18.2020 16:30	09.18.2020 16:30
	<i>Analyzed:</i>	09.18.2020 22:44	09.18.2020 22:49	09.18.2020 22:54	09.18.2020 22:59	09.18.2020 23:05	09.18.2020 23:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		343 4.97	86.2 4.99	85.7 4.96	93.6 5.00	82.7 5.00	81.9 5.00
TPH by SW8015 Mod	<i>Extracted:</i>	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00
	<i>Analyzed:</i>	09.19.2020 04:41	09.19.2020 05:03	09.19.2020 05:25	09.19.2020 05:47	09.19.2020 06:09	09.19.2020 06:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<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	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672983



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212c-md-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 09.18.2020 14:37
Report Date: 09.21.2020 14:55
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	672983-019	672983-020	672983-021	672983-022	672983-023	672983-024
	<i>Field Id:</i>	SW-37 (2.5')	SW-38 (2.5')	SW-39 (2.5')	SW-40 (2.5')	SW-41 (3.5')	SW-42 (3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.18.2020 15:15	09.18.2020 15:15	09.18.2020 15:00	09.18.2020 15:00	09.18.2020 15:00	09.18.2020 15:00
	<i>Analyzed:</i>	09.19.2020 01:22	09.19.2020 01:43	09.18.2020 20:52	09.18.2020 21:13	09.18.2020 21:34	09.18.2020 21:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
m,p-Xylenes		<0.00396 0.00396	<0.00398 0.00398	<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Total Xylenes		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00
	<i>Analyzed:</i>	09.18.2020 23:42	09.18.2020 23:57	09.19.2020 00:03	09.19.2020 00:08	09.19.2020 00:13	09.19.2020 21:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		84.1 4.95	79.4 5.04	84.2 4.98	97.9 5.00	55.2 5.02	53.9 4.96
TPH by SW8015 Mod	<i>Extracted:</i>	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00
	<i>Analyzed:</i>	09.19.2020 06:53	09.19.2020 07:15	09.19.2020 04:25	09.19.2020 05:23	09.19.2020 05:42	09.19.2020 06:02
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<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	<49.9 49.9	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 672983



Tetra Tech- Midland, Midland, TX

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212c-md-02306
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 09.18.2020 14:37
Report Date: 09.21.2020 14:55
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	672983-025	672983-026	672983-027	672983-028		
	Field Id:	SW-43 (3.5')	SW-44 (3.5')	SW-45 (3.5')	SW-46 (3.5')		
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00	09.17.2020 00:00		
BTEX by EPA 8021B	Extracted:	09.18.2020 15:00	09.18.2020 15:00	09.18.2020 15:00	09.18.2020 15:00		
	Analyzed:	09.18.2020 22:15	09.18.2020 22:35	09.18.2020 22:56	09.18.2020 23:16		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
m,p-Xylenes		<0.00404 0.00404	<0.00400 0.00400	<0.00399 0.00399	<0.00397 0.00397		
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198		
Chloride by EPA 300	Extracted:	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00		
	Analyzed:	09.19.2020 21:50	09.19.2020 21:55	09.19.2020 22:00	09.19.2020 22:06		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		56.9 4.98	58.9 5.04	48.9 4.96	47.7 4.97		
TPH by SW8015 Mod	Extracted:	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00	09.18.2020 17:00		
	Analyzed:	09.19.2020 06:21	09.19.2020 06:40	09.19.2020 06:59	09.19.2020 07:19		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0		
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0		
Total TPH		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0		

BRL - Below Reporting Limit

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

Analytical Report 672983

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Goldeneye 18 Federal Com #1H (10.15.19)

212c-md-02306

09.21.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.21.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **672983**

Goldeneye 18 Federal Com #1H (10.15.19)

Project Address: Eddy County, New Mexico

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 Eurofins Xenco, LLC Report Number(s) 672983. 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 Eurofins Xenco, LLC. 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. 672983 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 Eurofins Xenco, LLC 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 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole-12 (4')	S	09.17.2020 00:00		672983-001
Bottom Hole-13 (4')	S	09.17.2020 00:00		672983-002
Bottom Hole-14 (2.5')	S	09.17.2020 00:00		672983-003
Bottom Hole-15 (2.5')	S	09.17.2020 00:00		672983-004
Bottom Hole-16 (2.5')	S	09.17.2020 00:00		672983-005
Bottom Hole-17 (2.5')	S	09.17.2020 00:00		672983-006
Bottom Hole-18 (3.5')	S	09.17.2020 00:00		672983-007
Bottom Hole-19 (3.5')	S	09.17.2020 00:00		672983-008
SW-27 (4')	S	09.17.2020 00:00		672983-009
SW-28 (4')	S	09.17.2020 00:00		672983-010
SW-29 (4')	S	09.17.2020 00:00		672983-011
SW-30 (4')	S	09.17.2020 00:00		672983-012
SW-31 (4')	S	09.17.2020 00:00		672983-013
SW-32 (4')	S	09.17.2020 00:00		672983-014
SW-33 (2.5')	S	09.17.2020 00:00		672983-015
SW-34 (2.5')	S	09.17.2020 00:00		672983-016
SW-35 (2.5')	S	09.17.2020 00:00		672983-017
SW-36 (2.5')	S	09.17.2020 00:00		672983-018
SW-37 (2.5')	S	09.17.2020 00:00		672983-019
SW-38 (2.5')	S	09.17.2020 00:00		672983-020
SW-39 (2.5")	S	09.17.2020 00:00		672983-021
SW-40 (2.5')	S	09.17.2020 00:00		672983-022
SW-41 (3.5')	S	09.17.2020 00:00		672983-023
SW-42 (3.5')	S	09.17.2020 00:00		672983-024
SW-43 (3.5')	S	09.17.2020 00:00		672983-025
SW-44 (3.5')	S	09.17.2020 00:00		672983-026
SW-45 (3.5')	S	09.17.2020 00:00		672983-027
SW-46 (3.5')	S	09.17.2020 00:00		672983-028



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project ID: 212c-md-02306
Work Order Number(s): 672983

Report Date: 09.21.2020
Date Received: 09.18.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-12 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-001

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	316	5.00	mg/kg	09.18.2020 21:08		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.18.2020 23:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.18.2020 23:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.18.2020 23:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.18.2020 23:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.18.2020 23:11	
o-Terphenyl	84-15-1	96	%	70-130	09.18.2020 23:11	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-12 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-001

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 18:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 18:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 18:10	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.18.2020 18:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 18:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 18:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 18:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.18.2020 18:10		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 18:10		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-13 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-002

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	344	4.98	mg/kg	09.18.2020 21:14		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 00:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 00:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 00:17	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 00:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.19.2020 00:17	
o-Terphenyl	84-15-1	93	%	70-130	09.19.2020 00:17	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-13 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-002

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.18.2020 18:31	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.18.2020 18:31	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.18.2020 18:31	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.18.2020 18:31	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.18.2020 18:31	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.18.2020 18:31	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.18.2020 18:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.18.2020 18:31		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.18.2020 18:31		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-14 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-003

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	89.7	5.02	mg/kg	09.18.2020 21:19		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 00:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 00:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 00:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 00:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	09.19.2020 00:39	
o-Terphenyl	84-15-1	94	%	70-130	09.19.2020 00:39	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-14 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-003

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.18.2020 18:51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.18.2020 18:51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.18.2020 18:51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.18.2020 18:51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.18.2020 18:51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.18.2020 18:51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.18.2020 18:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.18.2020 18:51		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 18:51		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-15 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-004

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	86.5	4.99	mg/kg	09.18.2020 21:35		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.19.2020 01:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.19.2020 01:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.19.2020 01:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.19.2020 01:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.19.2020 01:01	
o-Terphenyl	84-15-1	92	%	70-130	09.19.2020 01:01	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-15 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-004

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.18.2020 19:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.18.2020 19:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.18.2020 19:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.18.2020 19:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.18.2020 19:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.18.2020 19:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.18.2020 19:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 19:12		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.18.2020 19:12		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-16 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-005

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	74.2	4.97	mg/kg	09.18.2020 21:40		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 01:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 01:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 01:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 01:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.19.2020 01:23	
o-Terphenyl	84-15-1	97	%	70-130	09.19.2020 01:23	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-16 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-005

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 19:32	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 19:32	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 19:32	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.18.2020 19:32	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 19:32	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 19:32	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 19:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.18.2020 19:32		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 19:32		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-17 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-006

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	90.4	4.95	mg/kg	09.18.2020 21:45		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 01:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 01:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 01:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 01:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	09.19.2020 01:45	
o-Terphenyl	84-15-1	99	%	70-130	09.19.2020 01:45	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-17 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-006

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.18.2020 19:53	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.18.2020 19:53	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.18.2020 19:53	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.18.2020 19:53	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.18.2020 19:53	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.18.2020 19:53	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.18.2020 19:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.18.2020 19:53		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 19:53		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-18 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-007

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	52.9	5.04	mg/kg	09.18.2020 21:51		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.19.2020 02:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.19.2020 02:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.19.2020 02:07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.19.2020 02:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.19.2020 02:07	
o-Terphenyl	84-15-1	87	%	70-130	09.19.2020 02:07	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-18 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-007

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 20:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 20:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 20:13	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.18.2020 20:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 20:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 20:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 20:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.18.2020 20:13		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 20:13		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-19 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-008

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.8	5.02	mg/kg	09.18.2020 21:56		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 02:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 02:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 02:29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 02:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.19.2020 02:29	
o-Terphenyl	84-15-1	87	%	70-130	09.19.2020 02:29	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-19 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-008

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.18.2020 20:34	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.18.2020 20:34	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.18.2020 20:34	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.18.2020 20:34	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.18.2020 20:34	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.18.2020 20:34	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.18.2020 20:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.18.2020 20:34		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 20:34		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-27 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-009

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	378	4.96	mg/kg	09.18.2020 22:01		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 02:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 02:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 02:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 02:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	09.19.2020 02:51	
o-Terphenyl	84-15-1	98	%	70-130	09.19.2020 02:51	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-27 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-009

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.18.2020 20:54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.18.2020 20:54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.18.2020 20:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.18.2020 20:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.18.2020 20:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.18.2020 20:54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.18.2020 20:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.18.2020 20:54		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.18.2020 20:54		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-28 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-010

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	339	5.00	mg/kg	09.18.2020 22:17		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 03:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 03:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 03:13	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 03:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.19.2020 03:13	
o-Terphenyl	84-15-1	88	%	70-130	09.19.2020 03:13	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-28 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-010

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.18.2020 21:15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.18.2020 21:15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.18.2020 21:15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.18.2020 21:15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.18.2020 21:15	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.18.2020 21:15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.18.2020 21:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 21:15		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.18.2020 21:15		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-29 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-011

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	337	4.99	mg/kg	09.18.2020 22:22		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 03:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 03:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 03:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 03:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.19.2020 03:57	
o-Terphenyl	84-15-1	90	%	70-130	09.19.2020 03:57	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-29 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-011

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 22:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 22:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 22:38	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.18.2020 22:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 22:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 22:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 22:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 22:38		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.18.2020 22:38		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-30 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-012

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	370	5.04	mg/kg	09.18.2020 22:38		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 04:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 04:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 04:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 04:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	09.19.2020 04:19	
o-Terphenyl	84-15-1	86	%	70-130	09.19.2020 04:19	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-30 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-012

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 22:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 22:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 22:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.18.2020 22:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 22:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 22:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 22:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 22:59		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.18.2020 22:59		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-31 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-013

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	343	4.97	mg/kg	09.18.2020 22:44		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 04:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 04:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 04:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 04:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.19.2020 04:41	
o-Terphenyl	84-15-1	86	%	70-130	09.19.2020 04:41	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-31 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-013

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.18.2020 23:19	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.18.2020 23:19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.18.2020 23:19	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.18.2020 23:19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.18.2020 23:19	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.18.2020 23:19	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.18.2020 23:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.18.2020 23:19		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.18.2020 23:19		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-32 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-014

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	86.2	4.99	mg/kg	09.18.2020 22:49		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.19.2020 05:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.19.2020 05:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.19.2020 05:03	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.19.2020 05:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.19.2020 05:03	
o-Terphenyl	84-15-1	96	%	70-130	09.19.2020 05:03	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-32 (4')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-014

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 23:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 23:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 23:40	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.18.2020 23:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 23:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 23:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 23:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.18.2020 23:40		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 23:40		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-33 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-015

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	85.7	4.96	mg/kg	09.18.2020 22:54		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 05:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 05:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 05:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 05:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.19.2020 05:25	
o-Terphenyl	84-15-1	100	%	70-130	09.19.2020 05:25	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-33 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-015

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.19.2020 00:00	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.19.2020 00:00	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.19.2020 00:00	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.19.2020 00:00	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.19.2020 00:00	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.19.2020 00:00	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.19.2020 00:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.19.2020 00:00		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.19.2020 00:00		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-34 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-016

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.6	5.00	mg/kg	09.18.2020 22:59		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 05:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 05:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 05:47	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 05:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	09.19.2020 05:47	
o-Terphenyl	84-15-1	104	%	70-130	09.19.2020 05:47	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-34 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-016

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.19.2020 00:21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.19.2020 00:21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.19.2020 00:21	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.19.2020 00:21	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.19.2020 00:21	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.19.2020 00:21	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.19.2020 00:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.19.2020 00:21	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.19.2020 00:21	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-35 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-017

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.7	5.00	mg/kg	09.18.2020 23:05		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 06:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 06:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 06:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 06:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	09.19.2020 06:09	
o-Terphenyl	84-15-1	103	%	70-130	09.19.2020 06:09	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-35 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-017

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.19.2020 00:41	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.19.2020 00:41	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.19.2020 00:41	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.19.2020 00:41	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.19.2020 00:41	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.19.2020 00:41	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.19.2020 00:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.19.2020 00:41		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.19.2020 00:41		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-36 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-018

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 16:30

Basis: Wet Weight

Seq Number: 3137640

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	81.9	5.00	mg/kg	09.18.2020 23:10		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 06:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 06:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 06:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 06:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	09.19.2020 06:30	
o-Terphenyl	84-15-1	101	%	70-130	09.19.2020 06:30	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-36 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-018

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.19.2020 01:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.19.2020 01:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.19.2020 01:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.19.2020 01:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.19.2020 01:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.19.2020 01:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.19.2020 01:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.19.2020 01:02	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.19.2020 01:02	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-37 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-019

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.1	4.95	mg/kg	09.18.2020 23:42		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 06:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 06:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 06:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 06:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.19.2020 06:53	
o-Terphenyl	84-15-1	95	%	70-130	09.19.2020 06:53	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-37 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-019

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.19.2020 01:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.19.2020 01:22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.19.2020 01:22	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	09.19.2020 01:22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.19.2020 01:22	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.19.2020 01:22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.19.2020 01:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.19.2020 01:22		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.19.2020 01:22		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-38 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-020

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.4	5.04	mg/kg	09.18.2020 23:57		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137626

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 07:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 07:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 07:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 07:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.19.2020 07:15	
o-Terphenyl	84-15-1	93	%	70-130	09.19.2020 07:15	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-38 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-020

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:15

Basis: Wet Weight

Seq Number: 3137580

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.19.2020 01:43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.19.2020 01:43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.19.2020 01:43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.19.2020 01:43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.19.2020 01:43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.19.2020 01:43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.19.2020 01:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.19.2020 01:43		
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.19.2020 01:43		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-39 (2.5")**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-021

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	84.2	4.98	mg/kg	09.19.2020 00:03		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 04:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 04:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 04:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 04:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.19.2020 04:25	
o-Terphenyl	84-15-1	93	%	70-130	09.19.2020 04:25	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-39 (2.5")**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-021

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.18.2020 20:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.18.2020 20:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.18.2020 20:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.18.2020 20:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.18.2020 20:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.18.2020 20:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.18.2020 20:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 20:52		
4-Bromofluorobenzene	460-00-4	94	%	70-130	09.18.2020 20:52		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-40 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-022

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.9	5.00	mg/kg	09.19.2020 00:08		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 05:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 05:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 05:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 05:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.19.2020 05:23	
o-Terphenyl	84-15-1	87	%	70-130	09.19.2020 05:23	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-40 (2.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-022

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.18.2020 21:13	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.18.2020 21:13	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.18.2020 21:13	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.18.2020 21:13	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.18.2020 21:13	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.18.2020 21:13	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.18.2020 21:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.18.2020 21:13		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.18.2020 21:13		



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-41 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-023

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.2	5.02	mg/kg	09.19.2020 00:13		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 05:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 05:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 05:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 05:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-130	09.19.2020 05:42	
o-Terphenyl	84-15-1	87	%	70-130	09.19.2020 05:42	



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Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-41 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-023

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.18.2020 21:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.18.2020 21:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.18.2020 21:34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.18.2020 21:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.18.2020 21:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.18.2020 21:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.18.2020 21:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	09.18.2020 21:34		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 21:34		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-42 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-024

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.9	4.96	mg/kg	09.19.2020 21:44		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 06:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 06:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 06:02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 06:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.19.2020 06:02	
o-Terphenyl	84-15-1	89	%	70-130	09.19.2020 06:02	



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-42 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-024

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.18.2020 21:54	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.18.2020 21:54	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.18.2020 21:54	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.18.2020 21:54	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.18.2020 21:54	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.18.2020 21:54	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.18.2020 21:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.18.2020 21:54		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.18.2020 21:54		



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-43 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-025

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.9	4.98	mg/kg	09.19.2020 21:50		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.19.2020 06:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.19.2020 06:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.19.2020 06:21	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.19.2020 06:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	09.19.2020 06:21	
o-Terphenyl	84-15-1	86	%	70-130	09.19.2020 06:21	



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-43 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-025

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.18.2020 22:15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.18.2020 22:15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.18.2020 22:15	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	09.18.2020 22:15	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.18.2020 22:15	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.18.2020 22:15	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.18.2020 22:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	09.18.2020 22:15	
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.18.2020 22:15	



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Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-44 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-026

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.9	5.04	mg/kg	09.19.2020 21:55		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 06:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 06:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 06:40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 06:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-130	09.19.2020 06:40	
o-Terphenyl	84-15-1	88	%	70-130	09.19.2020 06:40	



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-44 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-026

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 22:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 22:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 22:35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.18.2020 22:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 22:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 22:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 22:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.18.2020 22:35		
1,4-Difluorobenzene	540-36-3	93	%	70-130	09.18.2020 22:35		



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-45 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-027

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	48.9	4.96	mg/kg	09.19.2020 22:00		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.19.2020 06:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.19.2020 06:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.19.2020 06:59	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.19.2020 06:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.19.2020 06:59	
o-Terphenyl	84-15-1	103	%	70-130	09.19.2020 06:59	



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-45 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-027

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.18.2020 22:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.18.2020 22:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.18.2020 22:56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.18.2020 22:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.18.2020 22:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.18.2020 22:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.18.2020 22:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	09.18.2020 22:56		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.18.2020 22:56		



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-46 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-028

Date Collected: 09.17.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137641

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	47.7	4.97	mg/kg	09.19.2020 22:06		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.18.2020 17:00

Basis: Wet Weight

Seq Number: 3137624

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.19.2020 07:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.19.2020 07:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.19.2020 07:19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.19.2020 07:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.19.2020 07:19	
o-Terphenyl	84-15-1	85	%	70-130	09.19.2020 07:19	



Certificate of Analytical Results 672983

Tetra Tech- Midland, Midland, TX

Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-46 (3.5')**

Matrix: Soil

Date Received: 09.18.2020 14:37

Lab Sample Id: 672983-028

Date Collected: 09.17.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 09.18.2020 15:00

Basis: Wet Weight

Seq Number: 3137579

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.18.2020 23:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.18.2020 23:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.18.2020 23:16	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.18.2020 23:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.18.2020 23:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.18.2020 23:16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.18.2020 23:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	09.18.2020 23:16	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.18.2020 23:16	

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: Chloride by EPA 300

Seq Number: 3137640

MB Sample Id: 7711705-1-BLK

Matrix: Solid

LCS Sample Id: 7711705-1-BKS

Prep Method: E300P

Date Prep: 09.18.2020

LCSD Sample Id: 7711705-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	254	102	90-110	1	20	mg/kg	09.18.2020 20:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3137641

MB Sample Id: 7711706-1-BLK

Matrix: Solid

LCS Sample Id: 7711706-1-BKS

Prep Method: E300P

Date Prep: 09.18.2020

LCSD Sample Id: 7711706-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	254	102	90-110	1	20	mg/kg	09.18.2020 23:31	

Analytical Method: Chloride by EPA 300

Seq Number: 3137640

Parent Sample Id: 672842-002

Matrix: Soil

MS Sample Id: 672842-002 S

Prep Method: E300P

Date Prep: 09.18.2020

MSD Sample Id: 672842-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	790	250	1020	92	1040	100	90-110	2	20	mg/kg	09.18.2020 20:53	

Analytical Method: Chloride by EPA 300

Seq Number: 3137640

Parent Sample Id: 672983-009

Matrix: Soil

MS Sample Id: 672983-009 S

Prep Method: E300P

Date Prep: 09.18.2020

MSD Sample Id: 672983-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	378	248	623	99	627	100	90-110	1	20	mg/kg	09.18.2020 22:07	

Analytical Method: Chloride by EPA 300

Seq Number: 3137641

Parent Sample Id: 672861-005

Matrix: Soil

MS Sample Id: 672861-005 S

Prep Method: E300P

Date Prep: 09.18.2020

MSD Sample Id: 672861-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1130	250	1340	84	1340	84	90-110	0	20	mg/kg	09.19.2020 22:16	X

Analytical Method: Chloride by EPA 300

Seq Number: 3137641

Parent Sample Id: 672983-019

Matrix: Soil

MS Sample Id: 672983-019 S

Prep Method: E300P

Date Prep: 09.18.2020

MSD Sample Id: 672983-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	84.1	248	335	101	336	102	90-110	0	20	mg/kg	09.18.2020 23:47	

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137624

MB Sample Id: 7711700-1-BLK

Matrix: Solid

LCS Sample Id: 7711700-1-BKS

Prep Method: SW8015P

Date Prep: 09.18.2020

LCSD Sample Id: 7711700-1-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	916	92	1030	103	70-130	12	20	mg/kg	09.19.2020 03:47	
Diesel Range Organics (DRO)	<50.0	1000	953	95	1060	106	70-130	11	20	mg/kg	09.19.2020 03:47	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
1-Chlorooctane	75		92		100		70-130	%	09.19.2020 03:47			
o-Terphenyl	85		95		103		70-130	%	09.19.2020 03:47			

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137626

MB Sample Id: 7711703-1-BLK

Matrix: Solid

LCS Sample Id: 7711703-1-BKS

Prep Method: SW8015P

Date Prep: 09.18.2020

LCSD Sample Id: 7711703-1-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	890	89	852	85	70-130	4	20	mg/kg	09.18.2020 22:27	
Diesel Range Organics (DRO)	<50.0	1000	998	100	932	93	70-130	7	20	mg/kg	09.18.2020 22:27	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	90		98			89			70-130	%	09.18.2020 22:27	
o-Terphenyl	94		86			80			70-130	%	09.18.2020 22:27	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137624

Matrix: Solid

MB Sample Id: 7711700-1-BLK

Prep Method: SW8015P

Date Prep: 09.18.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.19.2020 03:28	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137626

Matrix: Solid

MB Sample Id: 7711703-1-BLK

Prep Method: SW8015P

Date Prep: 09.18.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.18.2020 22:05	

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

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

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

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137624

Parent Sample Id: 672983-021

Matrix: Soil

MS Sample Id: 672983-021 S

Prep Method: SW8015P

Date Prep: 09.18.2020

MSD Sample Id: 672983-021 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	998	893	89	906	91	70-130	1	20	mg/kg	09.19.2020 04:45	
Diesel Range Organics (DRO)	<49.9	998	921	92	933	93	70-130	1	20	mg/kg	09.19.2020 04:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	86		89		70-130	%	09.19.2020 04:45
o-Terphenyl	91		89		70-130	%	09.19.2020 04:45

Analytical Method: TPH by SW8015 Mod

Seq Number: 3137626

Parent Sample Id: 672983-001

Matrix: Soil

MS Sample Id: 672983-001 S

Prep Method: SW8015P

Date Prep: 09.18.2020

MSD Sample Id: 672983-001 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	863	87	868	87	70-130	1	20	mg/kg	09.18.2020 23:33	
Diesel Range Organics (DRO)	<49.9	997	950	95	948	95	70-130	0	20	mg/kg	09.18.2020 23:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		93		70-130	%	09.18.2020 23:33
o-Terphenyl	83		82		70-130	%	09.18.2020 23:33

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137579

MB Sample Id: 7711621-1-BLK

Matrix: Solid

LCS Sample Id: 7711621-1-BKS

Prep Method: SW5035A

Date Prep: 09.18.2020

LCSD Sample Id: 7711621-1-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	0.0987	99	0.0933	93	70-130	6	35	mg/kg	09.18.2020 14:03	
Toluene	<0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	09.18.2020 14:03	
Ethylbenzene	<0.00200	0.100	0.114	114	0.108	108	70-130	5	35	mg/kg	09.18.2020 14:03	
m,p-Xylenes	<0.00400	0.200	0.228	114	0.213	107	70-130	7	35	mg/kg	09.18.2020 14:03	
o-Xylene	<0.00200	0.100	0.111	111	0.103	103	70-130	7	35	mg/kg	09.18.2020 14:03	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		98		70-130	%	09.18.2020 14:03
4-Bromofluorobenzene	72		113		108		70-130	%	09.18.2020 14:03

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

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

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

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



Tetra Tech- Midland
Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137580

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.18.2020

MB Sample Id: 7711629-1-BLK

LCS Sample Id: 7711629-1-BKS

LCSD Sample Id: 7711629-1-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	0.0910	91	0.0913	91	70-130	0	35	mg/kg	09.18.2020 15:48	
Toluene	<0.00200	0.100	0.0892	89	0.0892	89	70-130	0	35	mg/kg	09.18.2020 15:48	
Ethylbenzene	<0.00200	0.100	0.0908	91	0.0898	90	70-130	1	35	mg/kg	09.18.2020 15:48	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.178	89	70-130	1	35	mg/kg	09.18.2020 15:48	
o-Xylene	<0.00200	0.100	0.0894	89	0.0890	89	70-130	0	35	mg/kg	09.18.2020 15:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		98		70-130	%	09.18.2020 15:48
4-Bromofluorobenzene	100		96		96		70-130	%	09.18.2020 15:48

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137579

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.18.2020

Parent Sample Id: 672970-001

MS Sample Id: 672970-001 S

MSD Sample Id: 672970-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0784	78	0.0752	74	70-130	4	35	mg/kg	09.18.2020 14:44	
Toluene	0.00231	0.100	0.0669	65	0.0627	60	70-130	6	35	mg/kg	09.18.2020 14:44	X
Ethylbenzene	0.0142	0.100	0.0645	50	0.0608	46	70-130	6	35	mg/kg	09.18.2020 14:44	X
m,p-Xylenes	0.0300	0.200	0.0875	29	0.0802	25	70-130	9	35	mg/kg	09.18.2020 14:44	X
o-Xylene	0.0278	0.100	0.0704	43	0.0658	38	70-130	7	35	mg/kg	09.18.2020 14:44	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		103		70-130	%	09.18.2020 14:44
4-Bromofluorobenzene	108		105		70-130	%	09.18.2020 14:44

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137580

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.18.2020

Parent Sample Id: 672983-001

MS Sample Id: 672983-001 S

MSD Sample Id: 672983-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0848	85	0.0855	86	70-130	1	35	mg/kg	09.18.2020 16:29	
Toluene	<0.00200	0.0998	0.0819	82	0.0818	82	70-130	0	35	mg/kg	09.18.2020 16:29	
Ethylbenzene	<0.00200	0.0998	0.0827	83	0.0827	83	70-130	0	35	mg/kg	09.18.2020 16:29	
m,p-Xylenes	<0.00399	0.200	0.162	81	0.163	82	70-130	1	35	mg/kg	09.18.2020 16:29	
o-Xylene	<0.00200	0.0998	0.0822	82	0.0823	82	70-130	0	35	mg/kg	09.18.2020 16:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		70-130	%	09.18.2020 16:29
4-Bromofluorobenzene	98		99		70-130	%	09.18.2020 16:29

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

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

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

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

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

Page 1 of 3

Client Name: COG Site Manager: Mike Carmona

Project Name: Goldeneye 18 Federal Com #1H (10.15.19)

Project Location: Eddy County, New Mexico

Project #: 212C-MD-02306

Invoice to:

Ike Tavaraz

Receiving Laboratory:

Xenco Labs

Sampler Signature:

Devin D

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME		WATER	SOIL	HCL	HNO ₃			CE	None

	Bottom Hole-12 (4')	9/17/2020		X				X	1	N
	Bottom Hole-13 (4')	9/17/2020		X				X	1	N
	Bottom Hole-14 (2.5')	9/17/2020		X				X	1	N
	Bottom Hole-15 (2.5')	9/17/2020		X				X	1	N
	Bottom Hole-16 (2.5')	9/17/2020		X				X	1	N
	Bottom Hole-17 (2.5')	9/17/2020		X				X	1	N
	Bottom Hole-18 (3.5')	9/17/2020		X				X	1	N
	Bottom Hole-19 (3.5')	9/17/2020		X				X	1	N
	SW-27 (4')	9/17/2020		X				X	1	N
	SW-28 (4')	9/17/2020		X				X	1	N

Relinquished by: Date: 9/18/20 Time: 1457

Relinquished by: Date: 9/18/20 Time: 1457

Relinquished by: Date: 9/18/20 Time: 1457

ANALYSIS REQUEST
(Circle or Specify Method No.)

1072983

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 USE ONLY

REMARKS:

☐ STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature

20/3.1

+05

(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

Page 2 of 3

Client Name: COG		Site Manager: Mike Carmona	
Project Name: Goldeneye 18 Federal Com #1H (10.15.19)		Project #: 212C-MD-02306	
Project Location: Eddy County, New Mexico		Project #: 212C-MD-02306	
Invoice to: Ike Tavaréz		Sampler Signature: Devin D	
Receiving Laboratory: Xenco Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2020			
	SW-29 (4')	9/17/2020		X		X						1	N
	SW-30 (4')	9/17/2020		X		X						1	N
	SW-31 (4')	9/17/2020		X		X						1	N
	SW-32 (4')	9/17/2020		X		X						1	N
	SW-33 (2.5')	9/17/2020		X		X						1	N
	SW-34 (2.5')	9/17/2020		X		X						1	N
	SW-35 (2.5')	9/17/2020		X		X						1	N
	SW-36 (2.5')	9/17/2020		X		X						1	N
	SW-37 (2.5')	9/17/2020		X		X						1	N
	SW-38 (2.5')	9/17/2020		X		X						1	N

Relinquished by:	Date: 9/18	Time: 1437	Received by:	Date: 9/18	Time: 1437
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	(Circle or Specify Method No.) BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance TPH 8015R Hold

ORIGINAL COPY

Analysis Request of Custody Record

Page 3 of 3



Tetra Tech, Inc.

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

Client Name:

COG

Site Manager:

Mike Carmona

Project Name:

Goldeneye 18 Federal Com #1H (10.15.19)

Project Location:
(county, state)

Eddy County, New Mexico

Project #:

212C-MD-02306

Invoice to:

Ike Tavaréz

Receiving Laboratory:

Xenco Labs

Sampler Signature:

Devin D

Comments:

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

SAMPLING

YEAR: 2020

DATE TIME

MATRIX

PRESERVATIVE METHOD

 WATER SOIL HCL HNO₃ ICE None
CONTAINERS
FILTERED (Y/N)

SW-39 (2.5)	9/17/2020		X							1	N
SW-40 (2.5)	9/17/2020		X							1	N
SW-41 (3.5)	9/17/2020		X							1	N
SW-42 (3.5)	9/17/2020		X							1	N
SW-43 (3.5)	9/17/2020		X							1	N
SW-44 (3.5)	9/17/2020		X							1	N
SW-45 (3.5)	9/17/2020		X							1	N
SW-46 (3.5)	9/17/2020		X							1	N

Relinquished by:

Date: Time:

9/18

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

9/18/20

Received by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

672983

 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 USE ONLY

REMARKS:

STANDARD

☒ RUSH: Same Day 24 hr 48 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

2.46/3.1

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Certificate of Analysis Summary 673711



Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Date Received in Lab: Mon 09.28.2020 13:06

Contact: Mike Carmona

Report Date: 09.30.2020 13:53

Project Location: Eddy County NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	673711-001 Bottom Hole-20 (2')	673711-002 Bottom Hole-21 (2')	673711-003 Bottom Hole-22 (2')	673711-004 Bottom Hole-23 (2')	673711-005 Bottom Hole-24 (2')	673711-006 Bottom Hole-25 (2')
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 15:00 09.28.2020 20:54 mg/kg RL	09.28.2020 15:00 09.28.2020 21:15 mg/kg RL	09.28.2020 15:00 09.28.2020 21:36 mg/kg RL	09.28.2020 15:00 09.28.2020 23:17 mg/kg RL	09.28.2020 15:00 09.28.2020 23:38 mg/kg RL	09.28.2020 15:00 09.28.2020 23:59 mg/kg RL
Benzene		<0.00200 0.00200	<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	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<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	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 16:50 09.28.2020 19:17 mg/kg RL	09.28.2020 16:50 09.28.2020 19:22 mg/kg RL	09.28.2020 16:50 09.28.2020 19:28 mg/kg RL	09.28.2020 16:50 09.28.2020 19:34 mg/kg RL	09.28.2020 16:50 09.28.2020 19:39 mg/kg RL	09.28.2020 17:10 09.28.2020 20:12 mg/kg RL
Chloride		19.2 4.99	20.5 4.97	18.1 5.00	19.1 5.00	23.0 5.00	22.5 5.00
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 13:30 09.28.2020 13:59 mg/kg RL	09.28.2020 13:30 09.28.2020 15:05 mg/kg RL	09.28.2020 13:30 09.28.2020 15:28 mg/kg RL	09.28.2020 13:30 09.28.2020 15:51 mg/kg RL	09.28.2020 13:30 09.28.2020 16:14 mg/kg RL	09.28.2020 13:30 09.28.2020 16:36 mg/kg 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	<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
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
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

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Certificate of Analysis Summary 673711

Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Contact: Mike Carmona

Project Location: Eddy County NM

Date Received in Lab: Mon 09.28.2020 13:06

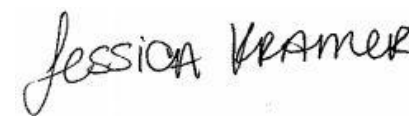
Report Date: 09.30.2020 13:53

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	673711-007 Bottom Hole-26 (2')	673711-008 Bottom Hole-27 (2')	673711-009 Bottom Hole-28 (2')	673711-010 Bottom Hole-29 (2')	673711-011 Bottom Hole-30 (2')	673711-012 Bottom Hole-31 (2')
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 15:00 09.29.2020 00:19 mg/kg RL	09.28.2020 15:00 09.29.2020 00:40 mg/kg RL	09.28.2020 15:00 09.29.2020 01:00 mg/kg RL	09.28.2020 15:00 09.29.2020 01:21 mg/kg RL	09.28.2020 15:00 09.29.2020 01:41 mg/kg RL	09.28.2020 15:00 09.29.2020 02:02 mg/kg RL
Benzene		<0.00200 0.00200	<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	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<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	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 17:10 09.28.2020 20:29 mg/kg RL	09.28.2020 17:10 09.28.2020 20:35 mg/kg RL	09.28.2020 17:10 09.28.2020 20:40 mg/kg RL	09.28.2020 17:10 09.28.2020 20:46 mg/kg RL	09.28.2020 17:10 09.28.2020 21:02 mg/kg RL	09.28.2020 17:10 09.28.2020 21:08 mg/kg RL
Chloride		20.1 4.96	22.2 4.99	21.9 5.04	25.1 4.96	25.0 5.00	24.5 5.05
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 13:30 09.28.2020 16:59 mg/kg RL	09.28.2020 13:30 09.28.2020 17:21 mg/kg RL	09.28.2020 13:30 09.28.2020 17:44 mg/kg RL	09.28.2020 13:30 09.28.2020 18:07 mg/kg RL	09.28.2020 13:30 09.28.2020 18:52 mg/kg RL	09.28.2020 13:30 09.28.2020 19:15 mg/kg 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

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Certificate of Analysis Summary 673711

Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Date Received in Lab: Mon 09.28.2020 13:06

Contact: Mike Carmona

Report Date: 09.30.2020 13:53

Project Location: Eddy County NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673711-013	673711-014	673711-015	673711-016	673711-017	673711-018
	<i>Field Id:</i>	Bottom Hole-32 (2')	Bottom Hole-33 (2.5')	Bottom Hole-34 (2.5')	Bottom Hole-35 (2.5')	Bottom Hole-36 (2.5')	Bottom Hole-37 (4')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.28.2020 15:00	09.28.2020 15:00	09.28.2020 15:00	09.28.2020 15:00	09.28.2020 15:00	09.28.2020 15:00
	<i>Analyzed:</i>	09.29.2020 02:23	09.29.2020 06:04	09.29.2020 06:24	09.29.2020 06:45	09.29.2020 07:06	09.29.2020 07:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	0.00230 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00398 0.00398	<0.00402 0.00402	<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201	0.00230 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	09.28.2020 17:10	09.28.2020 17:10	09.28.2020 17:10	09.28.2020 17:10	09.28.2020 17:10	09.28.2020 17:10
	<i>Analyzed:</i>	09.28.2020 21:13	09.28.2020 21:19	09.28.2020 21:25	09.28.2020 21:30	09.28.2020 21:47	09.28.2020 21:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		22.2 4.97	20.7 5.00	21.6 5.03	21.3 5.00	23.1 5.05	2860 24.9
TPH by SW8015 Mod	<i>Extracted:</i>	09.28.2020 13:30	09.28.2020 13:30	09.28.2020 13:30	09.28.2020 13:30	09.28.2020 13:30	09.28.2020 13:30
	<i>Analyzed:</i>	09.28.2020 19:38	09.28.2020 20:00	09.28.2020 20:23	09.28.2020 20:46	09.28.2020 21:08	09.28.2020 21:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	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

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Certificate of Analysis Summary 673711

Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Date Received in Lab: Mon 09.28.2020 13:06

Contact: Mike Carmona

Report Date: 09.30.2020 13:53

Project Location: Eddy County NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	673711-019 Bottom Hole-38 (4') SOIL 09.25.2020 00:00	673711-020 Bottom Hole-39 (4') SOIL 09.25.2020 00:00	673711-021 Bottom Hole-40 (4') SOIL 09.25.2020 00:00	673711-022 Bottom Hole-41 (4') SOIL 09.25.2020 00:00	673711-023 Bottom Hole-42 (4') SOIL 09.25.2020 00:00	673711-024 Bottom Hole-43 (4') SOIL 09.25.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 15:00 09.29.2020 07:47 mg/kg RL	09.28.2020 15:00 09.29.2020 08:08 mg/kg RL	09.28.2020 15:00 09.29.2020 08:29 mg/kg RL	09.28.2020 15:00 09.29.2020 08:50 mg/kg RL	09.28.2020 15:00 09.29.2020 09:10 mg/kg RL	09.28.2020 15:00 09.29.2020 10:50 mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00402 0.00402	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 17:10 09.28.2020 22:09 mg/kg RL	09.28.2020 17:10 09.28.2020 22:14 mg/kg RL	09.28.2020 17:10 09.28.2020 22:20 mg/kg RL	09.28.2020 17:10 09.28.2020 22:26 mg/kg RL	09.28.2020 17:10 09.28.2020 22:31 mg/kg RL	09.28.2020 17:10 09.28.2020 22:37 mg/kg RL
Chloride		2030 25.0	2020 25.0	1960 25.0	1900 25.0	2350 25.2	820 4.98
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 13:30 09.28.2020 21:54 mg/kg RL	09.28.2020 13:30 09.28.2020 22:16 mg/kg RL	09.28.2020 16:00 09.29.2020 00:07 mg/kg RL	09.28.2020 16:00 09.29.2020 01:11 mg/kg RL	09.28.2020 16:00 09.29.2020 01:33 mg/kg RL	09.28.2020 16:00 09.29.2020 01:54 mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<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)		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0
Total TPH		<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0

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Certificate of Analysis Summary 673711



Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Date Received in Lab: Mon 09.28.2020 13:06

Contact: Mike Carmona

Report Date: 09.30.2020 13:53

Project Location: Eddy County NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i> <i>Field Id:</i> <i>Depth:</i> <i>Matrix:</i> <i>Sampled:</i>	673711-025 Bottom Hole-44 (4') SOIL 09.25.2020 00:00	673711-026 Bottom Hole-45 (4') SOIL 09.25.2020 00:00	673711-027 Bottom Hole-46 (4') SOIL 09.25.2020 00:00	673711-028 Bottom Hole-47 (4') SOIL 09.25.2020 00:00	673711-029 Bottom Hole-48 (4') SOIL 09.25.2020 00:00	673711-030 Bottom Hole-49 (4') SOIL 09.25.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 15:00 09.29.2020 11:10 mg/kg RL	09.28.2020 15:00 09.29.2020 11:31 mg/kg RL	09.28.2020 15:00 09.29.2020 11:52 mg/kg RL	09.28.2020 15:00 09.29.2020 12:12 mg/kg RL	09.28.2020 15:00 09.29.2020 12:33 mg/kg RL	09.28.2020 15:00 09.29.2020 12:54 mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00403 0.00403	<0.00401 0.00401	<0.00402 0.00402	<0.00398 0.00398
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 17:10 09.28.2020 22:42 mg/kg RL	09.29.2020 10:30 09.29.2020 10:53 mg/kg RL	09.29.2020 10:30 09.29.2020 11:12 mg/kg RL	09.29.2020 10:30 09.29.2020 11:18 mg/kg RL	09.29.2020 10:30 09.29.2020 11:24 mg/kg RL	09.29.2020 10:30 09.29.2020 11:31 mg/kg RL
Chloride		639 4.95	662 X 5.04	598 4.98	467 5.00	1830 25.1	2220 24.9
TPH by SW8015 Mod	<i>Extracted:</i> <i>Analyzed:</i> <i>Units/RL:</i>	09.28.2020 16:00 09.29.2020 02:16 mg/kg RL	09.28.2020 16:00 09.29.2020 02:38 mg/kg RL	09.28.2020 16:00 09.29.2020 03:00 mg/kg RL	09.28.2020 16:00 09.29.2020 03:21 mg/kg RL	09.28.2020 16:00 09.29.2020 03:43 mg/kg RL	09.28.2020 16:00 09.29.2020 04:05 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	<49.8 49.8
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8
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	<49.8 49.8
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9	<49.8 49.8

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Certificate of Analysis Summary 673711



Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Date Received in Lab: Mon 09.28.2020 13:06

Contact: Mike Carmona

Report Date: 09.30.2020 13:53

Project Location: Eddy County NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673711-031	673711-032	673711-033	673711-034	673711-035	673711-036
	<i>Field Id:</i>	SW-47 (2')	SW-48 (2')	SW-49 (2')	SW-50 (2')	SW-51 (2.5')	SW-52 (2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.28.2020 15:00	09.28.2020 15:00	09.28.2020 15:00	09.29.2020 09:30	09.29.2020 09:30	09.29.2020 09:30
	<i>Analyzed:</i>	09.29.2020 13:14	09.29.2020 13:35	09.29.2020 13:56	09.29.2020 14:09	09.29.2020 18:36	09.29.2020 18:57
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Toluene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Ethylbenzene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
m,p-Xylenes		<0.00399 0.00399	<0.00402 0.00402	<0.00401 0.00401	<0.00402 0.00402	<0.00403 0.00403	<0.00398 0.00398
o-Xylene		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Total Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Total BTEX		<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199
Chloride by EPA 300	<i>Extracted:</i>	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30
	<i>Analyzed:</i>	09.29.2020 11:50	09.29.2020 11:56	09.29.2020 12:02	09.29.2020 12:09	09.29.2020 12:15	09.29.2020 12:21
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5.80 4.96	<5.02 5.02	<4.98 4.98	<4.99 4.99	<5.03 5.03	<4.98 4.98
TPH by SW8015 Mod	<i>Extracted:</i>	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00
	<i>Analyzed:</i>	09.29.2020 04:48	09.29.2020 05:09	09.29.2020 05:31	09.29.2020 05:53	09.29.2020 06:15	09.29.2020 06:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<49.8 49.8

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 673711



Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Date Received in Lab: Mon 09.28.2020 13:06

Contact: Mike Carmona

Report Date: 09.30.2020 13:53

Project Location: Eddy County NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	673711-037	673711-038	673711-039	673711-040	673711-041	673711-042
	<i>Field Id:</i>	SW-53 (2.5')	SW-54 (2.5')	SW-55 (2.5')	SW-56 (2.5')	SW-57 (4')	SW-58 (4')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00	09.25.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	09.29.2020 09:30	09.29.2020 09:30	09.29.2020 09:30	09.29.2020 09:30	09.29.2020 09:30	09.29.2020 13:30
	<i>Analyzed:</i>	09.29.2020 19:17	09.29.2020 19:38	09.29.2020 19:58	09.29.2020 20:19	09.29.2020 20:39	09.29.2020 19:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Toluene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
m,p-Xylenes		<0.00400 0.00400	<0.00401 0.00401	<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402	<0.00397 0.00397
o-Xylene		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Total BTEX		<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30	09.29.2020 10:30
	<i>Analyzed:</i>	09.29.2020 12:41	09.29.2020 12:47	09.29.2020 13:06	09.29.2020 13:12	09.29.2020 13:19	09.29.2020 13:25
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.03 5.03	<4.96 4.96	<4.99 4.99	<4.95 4.95	<5.04 5.04	<4.99 4.99
TPH by SW8015 Mod	<i>Extracted:</i>	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00	09.28.2020 16:00
	<i>Analyzed:</i>	09.29.2020 06:59	09.29.2020 07:22	09.29.2020 07:44	09.29.2020 08:05	09.29.2020 04:48	09.29.2020 05:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<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	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<49.9 49.9	<49.8 49.8

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 673711

Tetra Tech- Midland, Midland, TX

Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)

Project Id: 212C-MD-02306

Contact: Mike Carmona

Project Location: Eddy County NM

Date Received in Lab: Mon 09.28.2020 13:06

Report Date: 09.30.2020 13:53

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	673711-043	673711-044				
	Field Id:	SW-59 (4')	SW-60 (4')				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	09.25.2020 00:00	09.25.2020 00:00				
BTEX by EPA 8021B	Extracted:	09.29.2020 13:30	09.29.2020 13:30				
	Analyzed:	09.29.2020 20:09	09.29.2020 20:30				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00201 0.00201	<0.00201 0.00201				
Toluene		<0.00201 0.00201	<0.00201 0.00201				
Ethylbenzene		<0.00201 0.00201	<0.00201 0.00201				
m,p-Xylenes		<0.00402 0.00402	<0.00402 0.00402				
o-Xylene		<0.00201 0.00201	<0.00201 0.00201				
Total Xylenes		<0.00201 0.00201	<0.00201 0.00201				
Total BTEX		<0.00201 0.00201	<0.00201 0.00201				
Chloride by EPA 300	Extracted:	09.29.2020 10:45	09.29.2020 10:45				
	Analyzed:	09.29.2020 14:20	09.29.2020 14:37				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		5.31 5.05	<4.98 4.98				
TPH by SW8015 Mod	Extracted:	09.28.2020 16:00	09.28.2020 16:00				
	Analyzed:	09.29.2020 05:31	09.29.2020 05:53				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0				
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0				
Total TPH		<50.0 50.0	<50.0 50.0				

BRL - Below Reporting Limit

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



Analytical Report 673711

for

Tetra Tech- Midland

Project Manager: Mike Carmona

COG - Goldeneye 18 Federal Com #1H (10.15.19)

212C-MD-02306

09.30.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



09.30.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **673711**

COG - Goldeneye 18 Federal Com #1H (10.15.19)

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 Eurofins Xenco, LLC Report Number(s) 673711. 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 Eurofins Xenco, LLC. 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. 673711 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 Eurofins Xenco, LLC 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 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole-20 (2')	S	09.25.2020 00:00		673711-001
Bottom Hole-21 (2')	S	09.25.2020 00:00		673711-002
Bottom Hole-22 (2')	S	09.25.2020 00:00		673711-003
Bottom Hole-23 (2')	S	09.25.2020 00:00		673711-004
Bottom Hole-24 (2')	S	09.25.2020 00:00		673711-005
Bottom Hole-25 (2')	S	09.25.2020 00:00		673711-006
Bottom Hole-26 (2')	S	09.25.2020 00:00		673711-007
Bottom Hole-27 (2')	S	09.25.2020 00:00		673711-008
Bottom Hole-28 (2')	S	09.25.2020 00:00		673711-009
Bottom Hole-29 (2')	S	09.25.2020 00:00		673711-010
Bottom Hole-30 (2')	S	09.25.2020 00:00		673711-011
Bottom Hole-31 (2')	S	09.25.2020 00:00		673711-012
Bottom Hole-32 (2')	S	09.25.2020 00:00		673711-013
Bottom Hole-33 (2.5')	S	09.25.2020 00:00		673711-014
Bottom Hole-34 (2.5')	S	09.25.2020 00:00		673711-015
Bottom Hole-35 (2.5')	S	09.25.2020 00:00		673711-016
Bottom Hole-36 (2.5')	S	09.25.2020 00:00		673711-017
Bottom Hole-37 (4')	S	09.25.2020 00:00		673711-018
Bottom Hole-38 (4')	S	09.25.2020 00:00		673711-019
Bottom Hole-39 (4')	S	09.25.2020 00:00		673711-020
Bottom Hole-40 (4')	S	09.25.2020 00:00		673711-021
Bottom Hole-41 (4')	S	09.25.2020 00:00		673711-022
Bottom Hole-42 (4')	S	09.25.2020 00:00		673711-023
Bottom Hole-43 (4')	S	09.25.2020 00:00		673711-024
Bottom Hole-44 (4')	S	09.25.2020 00:00		673711-025
Bottom Hole-45 (4')	S	09.25.2020 00:00		673711-026
Bottom Hole-46 (4')	S	09.25.2020 00:00		673711-027
Bottom Hole-47 (4')	S	09.25.2020 00:00		673711-028
Bottom Hole-48 (4')	S	09.25.2020 00:00		673711-029
Bottom Hole-49 (4')	S	09.25.2020 00:00		673711-030
SW-47 (2')	S	09.25.2020 00:00		673711-031
SW-48 (2')	S	09.25.2020 00:00		673711-032
SW-49 (2')	S	09.25.2020 00:00		673711-033
SW-50 (2')	S	09.25.2020 00:00		673711-034
SW-51 (2.5')	S	09.25.2020 00:00		673711-035
SW-52 (2.5')	S	09.25.2020 00:00		673711-036
SW-53 (2.5')	S	09.25.2020 00:00		673711-037
SW-54 (2.5')	S	09.25.2020 00:00		673711-038
SW-55 (2.5')	S	09.25.2020 00:00		673711-039
SW-56 (2.5')	S	09.25.2020 00:00		673711-040
SW-57 (4')	S	09.25.2020 00:00		673711-041
SW-58 (4')	S	09.25.2020 00:00		673711-042
SW-59 (4')	S	09.25.2020 00:00		673711-043



Sample Cross Reference 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

SW-60 (4')	S	09.25.2020 00:00	673711-044
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**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: COG - Goldeneye 18 Federal Com #1H (10.15.19)**

Project ID: 212C-MD-02306
Work Order Number(s): 673711

Report Date: 09.30.2020
Date Received: 09.28.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3138362 TPH by SW8015 Mod

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

Samples affected are: 673711-001.

Batch: LBA-3138443 BTEX by EPA 8021B

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

Samples affected are: 673765-001 SD.

Batch: LBA-3138445 Chloride by EPA 300

Lab Sample ID 673711-036 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 673711-026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037, -038, -039, -040, -041, -042.

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



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-20 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-001

Date Collected: 09.25.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.28.2020 16:50

Basis: Wet Weight

Seq Number: 3138336

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.2	4.99	mg/kg	09.28.2020 19:17		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.28.2020 13:30

Basis: Wet Weight

Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 13:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 13:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 13:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 13:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	65	%	70-130	09.28.2020 13:59	**
o-Terphenyl	84-15-1	70	%	70-130	09.28.2020 13:59	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-20 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-001

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 20:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 20:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 20:54	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.28.2020 20:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 20:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 20:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 20:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.28.2020 20:54		
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.28.2020 20:54		



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-21 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-002 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 16:50 Basis: Wet Weight
 Seq Number: 3138336

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.5	4.97	mg/kg	09.28.2020 19:22		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 15:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 15:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 15:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 15:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.28.2020 15:05	
o-Terphenyl	84-15-1	90	%	70-130	09.28.2020 15:05	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-21 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-002

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 21:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 21:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 21:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.28.2020 21:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 21:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 21:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 21:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.28.2020 21:15		
4-Bromofluorobenzene	460-00-4	109	%	70-130	09.28.2020 21:15		



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-22 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-003 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 16:50 Basis: Wet Weight
 Seq Number: 3138336

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.1	5.00	mg/kg	09.28.2020 19:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 15:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 15:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 15:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 15:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	09.28.2020 15:28	
o-Terphenyl	84-15-1	81	%	70-130	09.28.2020 15:28	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-22 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-003

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 21:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 21:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 21:36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.28.2020 21:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 21:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 21:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 21:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.28.2020 21:36		
4-Bromofluorobenzene	460-00-4	111	%	70-130	09.28.2020 21:36		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-23 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-004 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 16:50 Basis: Wet Weight
 Seq Number: 3138336

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	19.1	5.00	mg/kg	09.28.2020 19:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 15:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 15:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 15:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 15:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.28.2020 15:51	
o-Terphenyl	84-15-1	86	%	70-130	09.28.2020 15:51	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-23 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-004

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 23:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 23:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 23:17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.28.2020 23:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 23:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 23:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 23:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.28.2020 23:17		
1,4-Difluorobenzene	540-36-3	88	%	70-130	09.28.2020 23:17		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-24 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-005

Date Collected: 09.25.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.28.2020 16:50

Basis: Wet Weight

Seq Number: 3138336

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.0	5.00	mg/kg	09.28.2020 19:39		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.28.2020 13:30

Basis: Wet Weight

Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 16:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 16:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 16:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 16:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	09.28.2020 16:14	
o-Terphenyl	84-15-1	89	%	70-130	09.28.2020 16:14	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-24 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-005

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 23:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 23:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 23:38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.28.2020 23:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 23:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 23:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 23:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.28.2020 23:38		
4-Bromofluorobenzene	460-00-4	95	%	70-130	09.28.2020 23:38		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-25 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-006 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.5	5.00	mg/kg	09.28.2020 20:12		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 16:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 16:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 16:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 16:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.28.2020 16:36	
o-Terphenyl	84-15-1	81	%	70-130	09.28.2020 16:36	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-25 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-006

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.28.2020 23:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.28.2020 23:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.28.2020 23:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.28.2020 23:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.28.2020 23:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.28.2020 23:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.28.2020 23:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.28.2020 23:59		
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.28.2020 23:59		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-26 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-007 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.1	4.96	mg/kg	09.28.2020 20:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.28.2020 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.28.2020 16:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.28.2020 16:59	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.28.2020 16:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.28.2020 16:59	
o-Terphenyl	84-15-1	89	%	70-130	09.28.2020 16:59	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-26 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-007

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 00:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 00:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 00:19	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 00:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 00:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 00:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 00:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.29.2020 00:19		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.29.2020 00:19		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-27 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-008 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.2	4.99	mg/kg	09.28.2020 20:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 17:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 17:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 17:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 17:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	09.28.2020 17:21	
o-Terphenyl	84-15-1	97	%	70-130	09.28.2020 17:21	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-27 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-008

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 00:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 00:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 00:40	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 00:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 00:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 00:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 00:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 00:40		
4-Bromofluorobenzene	460-00-4	101	%	70-130	09.29.2020 00:40		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-28 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-009

Date Collected: 09.25.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.28.2020 17:10

Basis: Wet Weight

Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.9	5.04	mg/kg	09.28.2020 20:40		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.28.2020 13:30

Basis: Wet Weight

Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 17:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 17:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 17:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 17:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	09.28.2020 17:44	
o-Terphenyl	84-15-1	88	%	70-130	09.28.2020 17:44	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-28 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-009

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 01:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 01:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 01:00	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 01:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 01:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 01:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 01:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.29.2020 01:00		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.29.2020 01:00		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-29 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-010 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.1	4.96	mg/kg	09.28.2020 20:46		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 18:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 18:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 18:07	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 18:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.28.2020 18:07	
o-Terphenyl	84-15-1	86	%	70-130	09.28.2020 18:07	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-29 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-010

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 01:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 01:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 01:21	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 01:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 01:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 01:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 01:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.29.2020 01:21	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.29.2020 01:21	



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-30 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-011 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.0	5.00	mg/kg	09.28.2020 21:02		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.28.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.28.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.28.2020 18:52	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.28.2020 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.28.2020 18:52	
o-Terphenyl	84-15-1	85	%	70-130	09.28.2020 18:52	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-30 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-011

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 01:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 01:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 01:41	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 01:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 01:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 01:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 01:41	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.29.2020 01:41		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.29.2020 01:41		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-31 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-012 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	24.5	5.05	mg/kg	09.28.2020 21:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 19:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 19:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 19:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 19:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.28.2020 19:15	
o-Terphenyl	84-15-1	94	%	70-130	09.28.2020 19:15	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-31 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-012

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 02:02	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 02:02	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 02:02	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 02:02	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 02:02	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 02:02	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 02:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.29.2020 02:02		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 02:02		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-32 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-013 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.2	4.97	mg/kg	09.28.2020 21:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 19:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 19:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 19:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 19:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	09.28.2020 19:38	
o-Terphenyl	84-15-1	122	%	70-130	09.28.2020 19:38	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-32 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-013

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138317

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 02:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 02:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 02:23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 02:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 02:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 02:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 02:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.29.2020 02:23		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 02:23		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-33 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-014 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.7	5.00	mg/kg	09.28.2020 21:19		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 20:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 20:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 20:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 20:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.28.2020 20:00	
o-Terphenyl	84-15-1	95	%	70-130	09.28.2020 20:00	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-33 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-014

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 06:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 06:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 06:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 06:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 06:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 06:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 06:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	09.29.2020 06:04		
1,4-Difluorobenzene	540-36-3	93	%	70-130	09.29.2020 06:04		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-34 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-015 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.6	5.03	mg/kg	09.28.2020 21:25		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 20:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 20:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 20:23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 20:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	09.28.2020 20:23	
o-Terphenyl	84-15-1	80	%	70-130	09.28.2020 20:23	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-34 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-015

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 06:24	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 06:24	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 06:24	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 06:24	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 06:24	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 06:24	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 06:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	09.29.2020 06:24		
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 06:24		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-35 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-016 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.3	5.00	mg/kg	09.28.2020 21:30		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.28.2020 20:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.28.2020 20:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.28.2020 20:46	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.28.2020 20:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	09.28.2020 20:46	
o-Terphenyl	84-15-1	115	%	70-130	09.28.2020 20:46	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-35 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-016

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 06:45	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 06:45	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 06:45	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 06:45	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 06:45	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 06:45	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 06:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.29.2020 06:45		
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.29.2020 06:45		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-36 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-017 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.1	5.05	mg/kg	09.28.2020 21:47		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 21:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 21:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 21:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 21:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	09.28.2020 21:08	
o-Terphenyl	84-15-1	119	%	70-130	09.28.2020 21:08	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-36 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-017

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 07:06	U	1
Toluene	108-88-3	0.00230	0.00199	mg/kg	09.29.2020 07:06		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 07:06	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 07:06	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 07:06	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 07:06	U	1
Total BTEX		0.00230	0.00199	mg/kg	09.29.2020 07:06		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.29.2020 07:06		
1,4-Difluorobenzene	540-36-3	107	%	70-130	09.29.2020 07:06		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-37 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-018 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2860	24.9	mg/kg	09.28.2020 21:52		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.28.2020 21:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.28.2020 21:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.28.2020 21:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.28.2020 21:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.28.2020 21:31	
o-Terphenyl	84-15-1	85	%	70-130	09.28.2020 21:31	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-37 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-018

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 07:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 07:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 07:27	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.2020 07:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 07:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 07:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 07:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	09.29.2020 07:27		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.29.2020 07:27		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-38 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-019 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2030	25.0	mg/kg	09.28.2020 22:09		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 21:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 21:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 21:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 21:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.28.2020 21:54	
o-Terphenyl	84-15-1	96	%	70-130	09.28.2020 21:54	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-38 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-019

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 07:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 07:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 07:47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.2020 07:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 07:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 07:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 07:47	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.29.2020 07:47		
4-Bromofluorobenzene	460-00-4	112	%	70-130	09.29.2020 07:47		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-39 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-020 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2020	25.0	mg/kg	09.28.2020 22:14		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 13:30 Basis: Wet Weight
 Seq Number: 3138362

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.28.2020 22:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.28.2020 22:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.28.2020 22:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.28.2020 22:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	09.28.2020 22:16	
o-Terphenyl	84-15-1	80	%	70-130	09.28.2020 22:16	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-39 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-020

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 08:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 08:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 08:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 08:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 08:08	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 08:08	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 08:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.29.2020 08:08		
4-Bromofluorobenzene	460-00-4	119	%	70-130	09.29.2020 08:08		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-40 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-021 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1960	25.0	mg/kg	09.28.2020 22:20		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 00:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 00:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 00:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 00:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	09.29.2020 00:07	
o-Terphenyl	84-15-1	95	%	70-130	09.29.2020 00:07	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-40 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-021

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 08:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 08:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 08:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 08:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 08:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 08:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 08:29	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.29.2020 08:29		
1,4-Difluorobenzene	540-36-3	95	%	70-130	09.29.2020 08:29		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-41 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-022 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1900	25.0	mg/kg	09.28.2020 22:26		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.29.2020 01:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.29.2020 01:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.29.2020 01:11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.29.2020 01:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.29.2020 01:11	
o-Terphenyl	84-15-1	98	%	70-130	09.29.2020 01:11	



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Tetra Tech- Midland, Midland, TX
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-41 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-022 Date Collected: 09.25.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: ALJ Date Prep: 09.28.2020 15:00 Basis: Wet Weight
 Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 08:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 08:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 08:50	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.2020 08:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 08:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 08:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 08:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	117	%	70-130	09.29.2020 08:50		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.29.2020 08:50		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-42 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-023

Date Collected: 09.25.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.28.2020 17:10

Basis: Wet Weight

Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2350	25.2	mg/kg	09.28.2020 22:31		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.28.2020 16:00

Basis: Wet Weight

Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 01:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 01:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 01:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 01:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	09.29.2020 01:33	
o-Terphenyl	84-15-1	100	%	70-130	09.29.2020 01:33	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-42 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-023

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 09:10	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 09:10	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 09:10	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 09:10	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 09:10	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 09:10	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 09:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	09.29.2020 09:10		
1,4-Difluorobenzene	540-36-3	108	%	70-130	09.29.2020 09:10		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-43 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-024 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	820	4.98	mg/kg	09.28.2020 22:37		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 01:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 01:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 01:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 01:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	09.29.2020 01:54	
o-Terphenyl	84-15-1	98	%	70-130	09.29.2020 01:54	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-43 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-024

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 10:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 10:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 10:50	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.2020 10:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 10:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 10:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 10:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	09.29.2020 10:50		
1,4-Difluorobenzene	540-36-3	91	%	70-130	09.29.2020 10:50		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-44 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-025 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.28.2020 17:10 Basis: Wet Weight
 Seq Number: 3138339

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	639	4.95	mg/kg	09.28.2020 22:42		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 02:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 02:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 02:16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 02:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.29.2020 02:16	
o-Terphenyl	84-15-1	98	%	70-130	09.29.2020 02:16	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-44 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-025

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 11:10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 11:10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 11:10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 11:10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 11:10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 11:10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 11:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.29.2020 11:10		
4-Bromofluorobenzene	460-00-4	108	%	70-130	09.29.2020 11:10		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-45 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-026 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	662	5.04	mg/kg	09.29.2020 10:53	X	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 02:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 02:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 02:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 02:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.29.2020 02:38	
o-Terphenyl	84-15-1	98	%	70-130	09.29.2020 02:38	



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Tetra Tech- Midland, Midland, TX
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-45 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-026

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 11:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 11:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 11:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.2020 11:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 11:31	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 11:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 11:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.29.2020 11:31		
4-Bromofluorobenzene	460-00-4	110	%	70-130	09.29.2020 11:31		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-46 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-027 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	598	4.98	mg/kg	09.29.2020 11:12		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 03:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 03:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 03:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 03:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	09.29.2020 03:00	
o-Terphenyl	84-15-1	101	%	70-130	09.29.2020 03:00	



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-46 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-027 Date Collected: 09.25.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: ALJ Date Prep: 09.28.2020 15:00 Basis: Wet Weight
 Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.29.2020 11:52	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.29.2020 11:52	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.29.2020 11:52	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.29.2020 11:52	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.29.2020 11:52	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.29.2020 11:52	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.29.2020 11:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	114	%	70-130	09.29.2020 11:52		
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.29.2020 11:52		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-47 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-028 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	467	5.00	mg/kg	09.29.2020 11:18		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 03:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 03:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 03:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 03:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.29.2020 03:21	
o-Terphenyl	84-15-1	97	%	70-130	09.29.2020 03:21	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-47 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-028

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 12:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 12:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 12:12	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.2020 12:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 12:12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 12:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 12:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	112	%	70-130	09.29.2020 12:12		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.29.2020 12:12		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-48 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-029 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1830	25.1	mg/kg	09.29.2020 11:24		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 03:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 03:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 03:43	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 03:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.29.2020 03:43	
o-Terphenyl	84-15-1	95	%	70-130	09.29.2020 03:43	



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-48 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-029 Date Collected: 09.25.2020 00:00
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: AMF % Moisture:
 Analyst: ALJ Date Prep: 09.28.2020 15:00 Basis: Wet Weight
 Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 12:33	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 12:33	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 12:33	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 12:33	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 12:33	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 12:33	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 12:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.29.2020 12:33		
4-Bromofluorobenzene	460-00-4	124	%	70-130	09.29.2020 12:33		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-49 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-030 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2220	24.9	mg/kg	09.29.2020 11:31		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.29.2020 04:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.29.2020 04:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.29.2020 04:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.29.2020 04:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	09.29.2020 04:05	
o-Terphenyl	84-15-1	98	%	70-130	09.29.2020 04:05	



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **Bottom Hole-49 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-030

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 12:54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 12:54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 12:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 12:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 12:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 12:54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 12:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	126	%	70-130	09.29.2020 12:54		
1,4-Difluorobenzene	540-36-3	108	%	70-130	09.29.2020 12:54		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-47 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-031 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.80	4.96	mg/kg	09.29.2020 11:50		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 04:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 04:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 04:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 04:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.29.2020 04:48	
o-Terphenyl	84-15-1	99	%	70-130	09.29.2020 04:48	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-47 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-031

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 13:14	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 13:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 13:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.2020 13:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 13:14	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 13:14	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 13:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	09.29.2020 13:14		
1,4-Difluorobenzene	540-36-3	106	%	70-130	09.29.2020 13:14		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-48 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-032 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	09.29.2020 11:56	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 05:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 05:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 05:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 05:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.29.2020 05:09	
o-Terphenyl	84-15-1	93	%	70-130	09.29.2020 05:09	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-48 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-032

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 13:35	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 13:35	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 13:35	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 13:35	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 13:35	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 13:35	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 13:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.29.2020 13:35		
4-Bromofluorobenzene	460-00-4	129	%	70-130	09.29.2020 13:35		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-49 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-033 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	09.29.2020 12:02	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 05:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 05:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 05:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 05:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	09.29.2020 05:31	
o-Terphenyl	84-15-1	83	%	70-130	09.29.2020 05:31	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-49 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-033

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: ALJ

Date Prep: 09.28.2020 15:00

Basis: Wet Weight

Seq Number: 3138432

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 13:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 13:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 13:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.2020 13:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 13:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 13:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 13:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	09.29.2020 13:56		
1,4-Difluorobenzene	540-36-3	105	%	70-130	09.29.2020 13:56		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-50 (2')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-034 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	09.29.2020 12:09	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 05:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 05:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 05:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 05:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	09.29.2020 05:53	
o-Terphenyl	84-15-1	94	%	70-130	09.29.2020 05:53	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-50 (2')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-034

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 14:09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 14:09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 14:09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 14:09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 14:09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 14:09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 14:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 14:09		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.29.2020 14:09		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-51 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-035 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	09.29.2020 12:15	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 06:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 06:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 06:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 06:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-130	09.29.2020 06:15	
o-Terphenyl	84-15-1	92	%	70-130	09.29.2020 06:15	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-51 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-035

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.29.2020 18:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.29.2020 18:36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.29.2020 18:36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.29.2020 18:36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.29.2020 18:36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.29.2020 18:36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.29.2020 18:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.29.2020 18:36		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.29.2020 18:36		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-52 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-036 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	09.29.2020 12:21	UX	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.29.2020 06:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.29.2020 06:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.29.2020 06:37	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.29.2020 06:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.29.2020 06:37	
o-Terphenyl	84-15-1	87	%	70-130	09.29.2020 06:37	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-52 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-036

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 18:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 18:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 18:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 18:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 18:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 18:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 18:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 18:57		
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.29.2020 18:57		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-53 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-037

Date Collected: 09.25.2020 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 09.29.2020 10:30

Basis: Wet Weight

Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	09.29.2020 12:41	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 09.28.2020 16:00

Basis: Wet Weight

Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 06:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 06:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 06:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 06:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.29.2020 06:59	
o-Terphenyl	84-15-1	88	%	70-130	09.29.2020 06:59	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-53 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-037

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 19:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 19:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 19:17	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.29.2020 19:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 19:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 19:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 19:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.29.2020 19:17		
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.29.2020 19:17		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-54 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-038 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	09.29.2020 12:47	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 07:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 07:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 07:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 07:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	09.29.2020 07:22	
o-Terphenyl	84-15-1	94	%	70-130	09.29.2020 07:22	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-54 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-038

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 19:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 19:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 19:38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	09.29.2020 19:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 19:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 19:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 19:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.29.2020 19:38		
4-Bromofluorobenzene	460-00-4	105	%	70-130	09.29.2020 19:38		



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-55 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-039 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	09.29.2020 13:06	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 07:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 07:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 07:44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 07:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-130	09.29.2020 07:44	
o-Terphenyl	84-15-1	88	%	70-130	09.29.2020 07:44	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-55 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-039

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.29.2020 19:58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.29.2020 19:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.29.2020 19:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.29.2020 19:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.29.2020 19:58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.29.2020 19:58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.29.2020 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.29.2020 19:58	
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.29.2020 19:58	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-56 (2.5')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-040 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	09.29.2020 13:12	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138363

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.29.2020 08:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.29.2020 08:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.29.2020 08:05	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.29.2020 08:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-130	09.29.2020 08:05	
o-Terphenyl	84-15-1	97	%	70-130	09.29.2020 08:05	



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Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-56 (2.5')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-040

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.29.2020 20:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.29.2020 20:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.29.2020 20:19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	09.29.2020 20:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.29.2020 20:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.29.2020 20:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.29.2020 20:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.29.2020 20:19	
4-Bromofluorobenzene	460-00-4	104	%	70-130	09.29.2020 20:19	



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-57 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-041 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.04	5.04	mg/kg	09.29.2020 13:19	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138367

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.29.2020 04:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.29.2020 04:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.29.2020 04:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.29.2020 04:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-130	09.29.2020 04:48	
o-Terphenyl	84-15-1	81	%	70-130	09.29.2020 04:48	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-57 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-041

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 09.29.2020 09:30

Basis: Wet Weight

Seq Number: 3138435

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 20:39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 20:39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 20:39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 20:39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 20:39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 20:39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 20:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.29.2020 20:39		
4-Bromofluorobenzene	460-00-4	107	%	70-130	09.29.2020 20:39		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-58 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-042 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:30 Basis: Wet Weight
 Seq Number: 3138445

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	09.29.2020 13:25	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138367

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.29.2020 05:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.29.2020 05:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.29.2020 05:09	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.29.2020 05:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-130	09.29.2020 05:09	
o-Terphenyl	84-15-1	83	%	70-130	09.29.2020 05:09	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-58 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-042

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.29.2020 13:30

Basis: Wet Weight

Seq Number: 3138443

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	09.29.2020 19:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	09.29.2020 19:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	09.29.2020 19:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	09.29.2020 19:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	09.29.2020 19:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	09.29.2020 19:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	09.29.2020 19:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	09.29.2020 19:48		
1,4-Difluorobenzene	540-36-3	98	%	70-130	09.29.2020 19:48		



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Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-59 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-043 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:45 Basis: Wet Weight
 Seq Number: 3138448

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.31	5.05	mg/kg	09.29.2020 14:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138367

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 05:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 05:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 05:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 05:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	09.29.2020 05:31	
o-Terphenyl	84-15-1	86	%	70-130	09.29.2020 05:31	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-59 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-043

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.29.2020 13:30

Basis: Wet Weight

Seq Number: 3138443

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 20:09	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 20:09	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 20:09	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 20:09	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 20:09	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 20:09	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 20:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.29.2020 20:09	
4-Bromofluorobenzene	460-00-4	118	%	70-130	09.29.2020 20:09	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-60 (4')** Matrix: Soil Date Received: 09.28.2020 13:06
 Lab Sample Id: 673711-044 Date Collected: 09.25.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 09.29.2020 10:45 Basis: Wet Weight
 Seq Number: 3138448

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	09.29.2020 14:37	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 09.28.2020 16:00 Basis: Wet Weight
 Seq Number: 3138367

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.29.2020 05:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.29.2020 05:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.29.2020 05:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.29.2020 05:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-130	09.29.2020 05:53	
o-Terphenyl	84-15-1	85	%	70-130	09.29.2020 05:53	



Certificate of Analytical Results 673711

Tetra Tech- Midland, Midland, TX

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Sample Id: **SW-60 (4')**

Matrix: Soil

Date Received: 09.28.2020 13:06

Lab Sample Id: 673711-044

Date Collected: 09.25.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 09.29.2020 13:30

Basis: Wet Weight

Seq Number: 3138443

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.29.2020 20:30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.29.2020 20:30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.29.2020 20:30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.29.2020 20:30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.29.2020 20:30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.29.2020 20:30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.29.2020 20:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	09.29.2020 20:30		
1,4-Difluorobenzene	540-36-3	94	%	70-130	09.29.2020 20:30		

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



Tetra Tech- Midland

COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: Chloride by EPA 300

Seq Number: 3138336

Matrix: Solid

Prep Method: E300P

Date Prep: 09.28.2020

MB Sample Id: 7712247-1-BLK

LCS Sample Id: 7712247-1-BKS

LCSD Sample Id: 7712247-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	269	108	269	108	90-110	0	20	mg/kg	09.28.2020 16:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3138339

Matrix: Solid

Prep Method: E300P

Date Prep: 09.28.2020

MB Sample Id: 7712249-1-BLK

LCS Sample Id: 7712249-1-BKS

LCSD Sample Id: 7712249-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	269	108	268	107	90-110	0	20	mg/kg	09.28.2020 20:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3138445

Matrix: Solid

Prep Method: E300P

Date Prep: 09.29.2020

MB Sample Id: 7712291-1-BLK

LCS Sample Id: 7712291-1-BKS

LCSD Sample Id: 7712291-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	256	102	90-110	0	20	mg/kg	09.29.2020 10:40	

Analytical Method: Chloride by EPA 300

Seq Number: 3138448

Matrix: Solid

Prep Method: E300P

Date Prep: 09.29.2020

MB Sample Id: 7712292-1-BLK

LCS Sample Id: 7712292-1-BKS

LCSD Sample Id: 7712292-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	257	103	254	102	90-110	1	20	mg/kg	09.29.2020 14:09	

Analytical Method: Chloride by EPA 300

Seq Number: 3138336

Matrix: Soil

Prep Method: E300P

Date Prep: 09.28.2020

Parent Sample Id: 673712-001

MS Sample Id: 673712-001 S

MSD Sample Id: 673712-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	57.5	248	337	113	326	108	90-110	3	20	mg/kg	09.28.2020 17:15	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138336

Matrix: Soil

Prep Method: E300P

Date Prep: 09.28.2020

Parent Sample Id: 673712-005

MS Sample Id: 673712-005 S

MSD Sample Id: 673712-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	62.5	250	336	109	328	106	90-110	2	20	mg/kg	09.28.2020 18:32	

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

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

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

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



Tetra Tech- Midland
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: Chloride by EPA 300

Seq Number: 3138339

Parent Sample Id: 673711-006

Matrix: Soil

MS Sample Id: 673711-006 S

Prep Method: E300P

Date Prep: 09.28.2020

MSD Sample Id: 673711-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	22.5	250	294	109	287	106	90-110	2	20	mg/kg	09.28.2020 20:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3138339

Parent Sample Id: 673711-016

Matrix: Soil

MS Sample Id: 673711-016 S

Prep Method: E300P

Date Prep: 09.28.2020

MSD Sample Id: 673711-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	21.3	250	282	104	279	103	90-110	1	20	mg/kg	09.28.2020 21:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3138445

Parent Sample Id: 673711-026

Matrix: Soil

MS Sample Id: 673711-026 S

Prep Method: E300P

Date Prep: 09.29.2020

MSD Sample Id: 673711-026 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	662	252	886	89	883	88	90-110	0	20	mg/kg	09.29.2020 10:59	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138445

Parent Sample Id: 673711-036

Matrix: Soil

MS Sample Id: 673711-036 S

Prep Method: E300P

Date Prep: 09.29.2020

MSD Sample Id: 673711-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.98	249	276	111	275	110	90-110	0	20	mg/kg	09.29.2020 12:28	X

Analytical Method: Chloride by EPA 300

Seq Number: 3138448

Parent Sample Id: 673651-025

Matrix: Soil

MS Sample Id: 673651-025 S

Prep Method: E300P

Date Prep: 09.29.2020

MSD Sample Id: 673651-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	31.6	253	292	103	289	102	90-110	1	20	mg/kg	09.29.2020 15:45	

Analytical Method: Chloride by EPA 300

Seq Number: 3138448

Parent Sample Id: 673711-043

Matrix: Soil

MS Sample Id: 673711-043 S

Prep Method: E300P

Date Prep: 09.29.2020

MSD Sample Id: 673711-043 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5.31	253	262	101	257	99	90-110	2	20	mg/kg	09.29.2020 14:26	

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



Tetra Tech- Midland
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138362

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.28.2020

MB Sample Id: 7712241-1-BLK

LCS Sample Id: 7712241-1-BKS

LCSD Sample Id: 7712241-1-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	945	95	830	83	70-130	13	20	mg/kg	09.28.2020 12:06	
Diesel Range Organics (DRO)	<50.0	1000	1000	100	894	89	70-130	11	20	mg/kg	09.28.2020 12:06	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	85		87			79			70-130	%	09.28.2020 12:06	
o-Terphenyl	88		82			76			70-130	%	09.28.2020 12:06	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138363

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.28.2020

MB Sample Id: 7712243-1-BLK

LCS Sample Id: 7712243-1-BKS

LCSD Sample Id: 7712243-1-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	999	100	988	99	70-130	1	20	mg/kg	09.28.2020 23:23	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	1110	111	70-130	1	20	mg/kg	09.28.2020 23:23	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	118		97			94			70-130	%	09.28.2020 23:23	
o-Terphenyl	118		107			102			70-130	%	09.28.2020 23:23	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138367

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.28.2020

MB Sample Id: 7712244-1-BLK

LCS Sample Id: 7712244-1-BKS

LCSD Sample Id: 7712244-1-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	09.28.2020 23:02	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	995	100	70-130	2	20	mg/kg	09.28.2020 23:02	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	88		97			96			70-130	%	09.28.2020 23:02	
o-Terphenyl	86		88			89			70-130	%	09.28.2020 23:02	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138362

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.28.2020

MB Sample Id: 7712241-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.28.2020 11:43	

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 Result

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



Tetra Tech- Midland
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138363

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.28.2020

MB Sample Id: 7712243-1-BLK

Parameter

	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.28.2020 23:02	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138367

Matrix: Solid

Prep Method: SW8015P

Date Prep: 09.28.2020

MB Sample Id: 7712244-1-BLK

Parameter

	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.29.2020 00:07	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138362

Matrix: Soil

Prep Method: SW8015P

Date Prep: 09.28.2020

Parent Sample Id: 673711-001

MS Sample Id: 673711-001 S

MSD Sample Id: 673711-001 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	826	83	843	85	70-130	2	20	mg/kg	09.28.2020 14:21	
Diesel Range Organics (DRO)	<49.9	997	808	81	885	89	70-130	9	20	mg/kg	09.28.2020 14:21	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	80		82		70-130	%	09.28.2020 14:21
o-Terphenyl	80		86		70-130	%	09.28.2020 14:21

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138363

Matrix: Soil

Prep Method: SW8015P

Date Prep: 09.28.2020

Parent Sample Id: 673711-021

MS Sample Id: 673711-021 S

MSD Sample Id: 673711-021 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	998	965	97	938	94	70-130	3	20	mg/kg	09.29.2020 00:28	
Diesel Range Organics (DRO)	<49.9	998	1060	106	1050	105	70-130	1	20	mg/kg	09.29.2020 00:28	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		90		70-130	%	09.29.2020 00:28
o-Terphenyl	97		95		70-130	%	09.29.2020 00:28

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

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

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

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



Tetra Tech- Midland
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: TPH by SW8015 Mod

Seq Number: 3138367

Parent Sample Id: 673712-001

Matrix: Soil

MS Sample Id: 673712-001 S

Prep Method: SW8015P

Date Prep: 09.28.2020

MSD Sample Id: 673712-001 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	998	988	99	1020	102	70-130	3	20	mg/kg	09.29.2020 00:49	
Diesel Range Organics (DRO)	<49.9	998	969	97	978	98	70-130	1	20	mg/kg	09.29.2020 00:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	89		92		70-130	%	09.29.2020 00:49
o-Terphenyl	71		80		70-130	%	09.29.2020 00:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138317

MB Sample Id: 7712245-1-BLK

Matrix: Solid

LCS Sample Id: 7712245-1-BKS

Prep Method: SW5035A

Date Prep: 09.28.2020

LCSD Sample Id: 7712245-1-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	0.117	117	0.112	112	70-130	4	35	mg/kg	09.28.2020 15:52	
Toluene	<0.00200	0.100	0.112	112	0.105	105	70-130	6	35	mg/kg	09.28.2020 15:52	
Ethylbenzene	<0.00200	0.100	0.107	107	0.102	102	70-130	5	35	mg/kg	09.28.2020 15:52	
m,p-Xylenes	<0.00400	0.200	0.230	115	0.218	109	70-130	5	35	mg/kg	09.28.2020 15:52	
o-Xylene	<0.00200	0.100	0.110	110	0.104	104	70-130	6	35	mg/kg	09.28.2020 15:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		104		99		70-130	%	09.28.2020 15:52
4-Bromofluorobenzene	97		106		103		70-130	%	09.28.2020 15:52

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138432

MB Sample Id: 7712250-1-BLK

Matrix: Solid

LCS Sample Id: 7712250-1-BKS

Prep Method: SW5035A

Date Prep: 09.28.2020

LCSD Sample Id: 7712250-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.108	108	0.110	110	70-130	2	35	mg/kg	09.29.2020 03:33	
Toluene	<0.00200	0.0998	0.101	101	0.104	104	70-130	3	35	mg/kg	09.29.2020 03:33	
Ethylbenzene	<0.00200	0.0998	0.0963	96	0.0981	98	70-130	2	35	mg/kg	09.29.2020 03:33	
m,p-Xylenes	<0.00399	0.200	0.204	102	0.208	104	70-130	2	35	mg/kg	09.29.2020 03:33	
o-Xylene	<0.00200	0.0998	0.100	100	0.101	101	70-130	1	35	mg/kg	09.29.2020 03:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	82		107		103		70-130	%	09.29.2020 03:33
4-Bromofluorobenzene	104		104		109		70-130	%	09.29.2020 03:33

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



Tetra Tech- Midland
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138435

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.29.2020

MB Sample Id: 7712324-1-BLK

LCS Sample Id: 7712324-1-BKS

LCSD Sample Id: 7712324-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.107	107	0.116	116	70-130	8	35	mg/kg	09.29.2020 10:34	
Toluene	<0.00200	0.0998	0.0997	100	0.121	121	70-130	19	35	mg/kg	09.29.2020 10:34	
Ethylbenzene	<0.00200	0.0998	0.106	106	0.114	114	70-130	7	35	mg/kg	09.29.2020 10:34	
m,p-Xylenes	<0.00399	0.200	0.217	109	0.234	117	70-130	8	35	mg/kg	09.29.2020 10:34	
o-Xylene	<0.00200	0.0998	0.105	105	0.114	114	70-130	8	35	mg/kg	09.29.2020 10:34	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		97		101		70-130	%	09.29.2020 10:34
4-Bromofluorobenzene	101		97		101		70-130	%	09.29.2020 10:34

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138443

Matrix: Solid

Prep Method: SW5035A

Date Prep: 09.29.2020

MB Sample Id: 7712338-1-BLK

LCS Sample Id: 7712338-1-BKS

LCSD Sample Id: 7712338-1-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	0.121	121	0.120	120	70-130	1	35	mg/kg	09.29.2020 16:54	
Toluene	<0.00200	0.100	0.114	114	0.113	113	70-130	1	35	mg/kg	09.29.2020 16:54	
Ethylbenzene	<0.00200	0.100	0.109	109	0.109	109	70-130	0	35	mg/kg	09.29.2020 16:54	
m,p-Xylenes	<0.00400	0.200	0.234	117	0.233	117	70-130	0	35	mg/kg	09.29.2020 16:54	
o-Xylene	<0.00200	0.100	0.112	112	0.113	113	70-130	1	35	mg/kg	09.29.2020 16:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	79		105		101		70-130	%	09.29.2020 16:54
4-Bromofluorobenzene	114		121		122		70-130	%	09.29.2020 16:54

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138317

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.28.2020

Parent Sample Id: 673712-003

MS Sample Id: 673712-003 S

MSD Sample Id: 673712-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.104	104	70-130	3	35	mg/kg	09.28.2020 16:34	
Toluene	<0.00200	0.100	0.102	102	0.0981	98	70-130	4	35	mg/kg	09.28.2020 16:34	
Ethylbenzene	<0.00200	0.100	0.0971	97	0.0933	93	70-130	4	35	mg/kg	09.28.2020 16:34	
m,p-Xylenes	<0.00400	0.200	0.206	103	0.197	99	70-130	4	35	mg/kg	09.28.2020 16:34	
o-Xylene	<0.00200	0.100	0.0996	100	0.0974	97	70-130	2	35	mg/kg	09.28.2020 16:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		102		70-130	%	09.28.2020 16:34
4-Bromofluorobenzene	106		112		70-130	%	09.28.2020 16:34

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



Tetra Tech- Midland
COG - Goldeneye 18 Federal Com #1H (10.15.19)

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138432

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.28.2020

Parent Sample Id: 673711-014

MS Sample Id: 673711-014 S

MSD Sample Id: 673711-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0953	95	0.101	101	70-130	6	35	mg/kg	09.29.2020 04:15	
Toluene	<0.00200	0.0998	0.0853	85	0.0898	90	70-130	5	35	mg/kg	09.29.2020 04:15	
Ethylbenzene	<0.00200	0.0998	0.0827	83	0.0867	87	70-130	5	35	mg/kg	09.29.2020 04:15	
m,p-Xylenes	<0.00399	0.200	0.170	85	0.180	90	70-130	6	35	mg/kg	09.29.2020 04:15	
o-Xylene	<0.00200	0.0998	0.0857	86	0.0907	91	70-130	6	35	mg/kg	09.29.2020 04:15	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		109		70-130	%	09.29.2020 04:15
4-Bromofluorobenzene	107		107		70-130	%	09.29.2020 04:15

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138435

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.29.2020

Parent Sample Id: 673711-034

MS Sample Id: 673711-034 S

MSD Sample Id: 673711-034 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0944	95	0.104	104	70-130	10	35	mg/kg	09.29.2020 11:15	
Toluene	<0.00199	0.0996	0.102	102	0.0991	99	70-130	3	35	mg/kg	09.29.2020 11:15	
Ethylbenzene	<0.00199	0.0996	0.0970	97	0.102	102	70-130	5	35	mg/kg	09.29.2020 11:15	
m,p-Xylenes	<0.00398	0.199	0.201	101	0.208	104	70-130	3	35	mg/kg	09.29.2020 11:15	
o-Xylene	<0.00199	0.0996	0.0980	98	0.102	102	70-130	4	35	mg/kg	09.29.2020 11:15	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		98		70-130	%	09.29.2020 11:15
4-Bromofluorobenzene	105		101		70-130	%	09.29.2020 11:15

Analytical Method: BTEX by EPA 8021B

Seq Number: 3138443

Matrix: Soil

Prep Method: SW5035A

Date Prep: 09.29.2020

Parent Sample Id: 673765-001

MS Sample Id: 673765-001 S

MSD Sample Id: 673765-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.115	116	0.114	114	70-130	1	35	mg/kg	09.29.2020 17:36	
Toluene	<0.00199	0.0994	0.104	105	0.102	102	70-130	2	35	mg/kg	09.29.2020 17:36	
Ethylbenzene	<0.00199	0.0994	0.0956	96	0.0925	93	70-130	3	35	mg/kg	09.29.2020 17:36	
m,p-Xylenes	<0.00398	0.199	0.202	102	0.196	98	70-130	3	35	mg/kg	09.29.2020 17:36	
o-Xylene	<0.00199	0.0994	0.0979	98	0.0965	97	70-130	1	35	mg/kg	09.29.2020 17:36	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		110		70-130	%	09.29.2020 17:36
4-Bromofluorobenzene	119		137	**	70-130	%	09.29.2020 17:36

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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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Analysis Request of Chain of Custody Record



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Client Name: COG		Site Manager: Mike Carmona	
Project Name: Goldeneye 18 Federal Com #1H (10.15.19)			
Project Location: Eddy County, New Mexico		Project #: 212C-MD-02306	
Invoice to: Eddy County, New Mexico			
Receiving Laboratory: Xenco Labs		Sampler Signature: Devin D	
Comments:			
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION	
		YEAR: 2020	
		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	
		Hold	

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(Circle) ~~HAND DELIVERED~~ FEDEX UPS Tracking #:

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

6718711

Page 3 of 5

Client Name:		COG		Site Manager:		Mike Carmona	
Project Name:		Goldeneye 18 Federal Com #1H (10.15.19)					
Project Location: (county, state)		Eddy County, New Mexico		Project #:		212C-MD-02306	
Invoice to:		Ike Tavaréz					
Receiving Laboratory:		Xenco Labs		Sampler Signature:		Devin D	
Comments:							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2020			
	Bottomhole-40 (4')	9/25/2020		X				X				1	N
	Bottomhole-41 (4')	9/25/2020		X				X				1	N
	Bottomhole-42 (4')	9/25/2020		X				X				1	N
	Bottomhole-43 (4')	9/25/2020		X				X				1	N
	Bottomhole-44 (4')	9/25/2020		X				X				1	N
	Bottomhole-45 (4')	9/25/2020		X				X				1	N
	Bottomhole-46 (4')	9/25/2020		X				X				1	N
	Bottomhole-47 (4')	9/25/2020		X				X				1	N
	Bottomhole-48 (4')	9/25/2020		X				X				1	N
	Bottomhole-49 (4')	9/25/2020		X				X				1	N

LAB USE ONLY	REMARKS:	ANALYSIS REQUEST (Circle or Specify Method No.)																			
LAB USE ONLY	☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr <u>72 hr</u> ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																
		X	X	X	X																

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Sammy</i>	9/28/20	1306	<i>Mike</i>		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

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

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 900 West Wall Street, Ste 100
 Midland, Texas 79701
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678711

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Client Name: COG		Site Manager: Mike Carmona	
Project Name: Goldeneye 18 Federal Com #1H (10.15.19)			
Project Location: Eddy County, New Mexico		Project #: 212C-MD-02306	
Invoice to: Ike Tavaraz			
Receiving Laboratory: Xenco Labs		Sampler Signature: Devin D	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2020			
	SW-47 (2')	9/25/2020		X				X				1	N
	SW-48 (2')	9/25/2020		X				X				1	N
	SW-49 (2')	9/25/2020		X				X				1	N
	SW-50 (2')	9/25/2020		X				X				1	N
	SW-51 (2.5')	9/25/2020		X				X				1	N
	SW-52 (2.5')	9/25/2020		X				X				1	N
	SW-53 (2.5')	9/25/2020		X				X				1	N
	SW-54 (2.5')	9/25/2020		X				X				1	N
	SW-55 (2.5')	9/25/2020		X				X				1	N
	SW-56 (2.5')	9/25/2020		X				X				1	N

Relinquished by: <i>Ben Murphy</i>	Date: 9/23/20	Time: 1306	Received by: <i>Mike Carmona</i>	Date: 9/23/20	Time: 1306
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	(Circle or Specify Method No.) BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance TPH 8015R Hold

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(Circle) HAND-DELIVERED INDEX UPS Tracking #:

-201

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

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 09.28.2020 01.06.00 PM

Work Order #: 673711

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	-2.1
#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

Date: 09.28.2020

Checklist reviewed by:



Jessica Kramer

Date: 09.29.2020

SCARBOROUGH DRILLING, INC.

TEST HOLES • WATER WELLS

P.O. Box 305 - Ph. 806-872-3285 or 872-9349

LAMESA, TEXAS 79331

2001 South Hwy. 87

WELL LOG

From	To	FORMATION
0	4	Brown Top Soil
4	5	Caliche
5	12	Red Sand
12	20	Red Sand w/ Caliche layers
20	30	Caliche w Red Sand
30	55	Red Shale w/ Caliche
		BH1
		LOG - Seabiscuit
		Federal Com 2H+4H
		Plugged w/ Hole Plug
		32.233386 -103.719410

Date 8-5-20 DrillerLee Seay

GIBBS PRINTING CO. LAMESA, TX

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 11351

CONDITIONS OF APPROVAL

Operator:	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	OGRID:	229137	Action Number:	11351	Action Type:	C-141
OCD Reviewer	Condition								
ceads	None								