Page 1 of 104

Incident ID NRM2006937434

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.							
	11 NMAC						
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	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 ODG	C District office must be notified 2 days prior to final sampling)						
✓ Description of remediation activities							
and regulations all operators are required to report and/or file certai may endanger public health or the environment. The acceptance of	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in						
Printed Name: Todd Wells	Title: Environmental Specialist						
Signature: Todd Wells	Date: <u>5/3/21</u>						
email: Todd_Wells@eogresources.com	Telephone: (432) 686-3613						
OCD Only							
Received by: Chad Hensley	Date: <u>07/30/2021</u>						
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: <u>07/30/2021</u>						
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced						

SITE INFORMATION Report Type: Closure Report - NRM2006937434								
								General Site In
Site:		Klondike R	euse Water Pit					
Company:		EOG Resou	ırces					
Section, Towns	ship and Range	Unit H	Sec. 32	T 24S	R 34E			
County:		Lea County						
GPS:			32.177393			-103.48	371000	
Surface Owner	<i>"</i> :							
Release Data:								
Date Released:		10/2/2019						
Type Release:		Failed Head						
Source of Conta		Reuse Wate						
Fluid Released:		100 bbls RV	V					
Fluids Recovere		0 bbls PW						
Official Commu	unication:							
Name:	Todd Wells				Clair Gonza	ales		
Company:	EOG Reources				Tetra Tech			
Address:	5509 Champions	Or			901 West V	901 West Wall Street		
		Suite 100						
City:	Midland Texas, 79706				Midland, Texas			
Phone number:	ber: 432-686-3667				(432) 682-4	559		
Fax:								
Email:	Todd_Wells@ed	gresources.co	om .		Clair.Gonz	zales@tetrate	ech.com	

Site Characterization	
Depth to Groundwater:	224' below surface
Karst Potential:	low

Recommended Remedial Action Levels (RRALs)						
Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides			
10 mg/kg	50 mg/kg	100 ma/ka	600 mg/kg			



April 26, 2021

Environmental Specialist Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Report for the EOG Resources, Klondike Reuse Water Pit, Unit H, Section 32, Township 24 South, Range 34 East, Lea County, New Mexico.

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Klondike Reuse Water Pit, Unit H, Section 32, Township 24 South, Range 34 East, Lea County, New Mexico (Site). The site coordinates are 32.177393°, -103.487100°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on October 2, 2019, and released approximately 100 barrels of reuse water; while pumping from one pit to another, the header pressured up and failed. None of the released fluids were recovered. The release occurred from the pit onto the pad; the impact stayed on the location, impacted areas measuring approximately 140' x 690'. The C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site. No lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is in a low karst potential area. There is a USGS Blue Line watercourse located 800' away. The nearest well is listed in the USGS National Water Information Database website in Section 35, approximately 2.6 miles east of the site, and has a reported depth to groundwater of 224' below ground surface. Site characterization data is included in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases,

etra Tech



updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). The proposed RRAL for TPH is 100 mg/kg (GRO+DRO+MRO) based upon the site characterization. Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment and Analytical Results

On October 18, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of eleven (11) auger holes (AH-1 through AH-11) were installed to total depths ranging from 0-1'-2.5' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene, total BTEX, or TPH concentrations above the remediation threshold. However, chloride concentrations above the 600 mg/kg threshold were detected in the areas of auger holes (AH-4 and AH-11), at depths ranging from surface to 1.0' below surface. The area of auger hole (AH-4) was not vertically defined during the site assessment.

Remediation Activities

Based on the soil assessment results, Tetra Tech personnel were onsite on March 11, 2020, to supervise the remediation activities and collect confirmation samples. The impacted areas were excavated to total depths ranging from 1.0'-1.5' below surface, as shown on Figure 4 and highlighted (green) on Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of two (2) bottom hole samples (Bottom Hole 1 and Bottom Hole 2) and eight (8) sidewall samples (N1SW, N2SW, W1SW, W2SW, E1SW, E2SW, S1SW, S2SW) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 4.

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

Approximately 12 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.



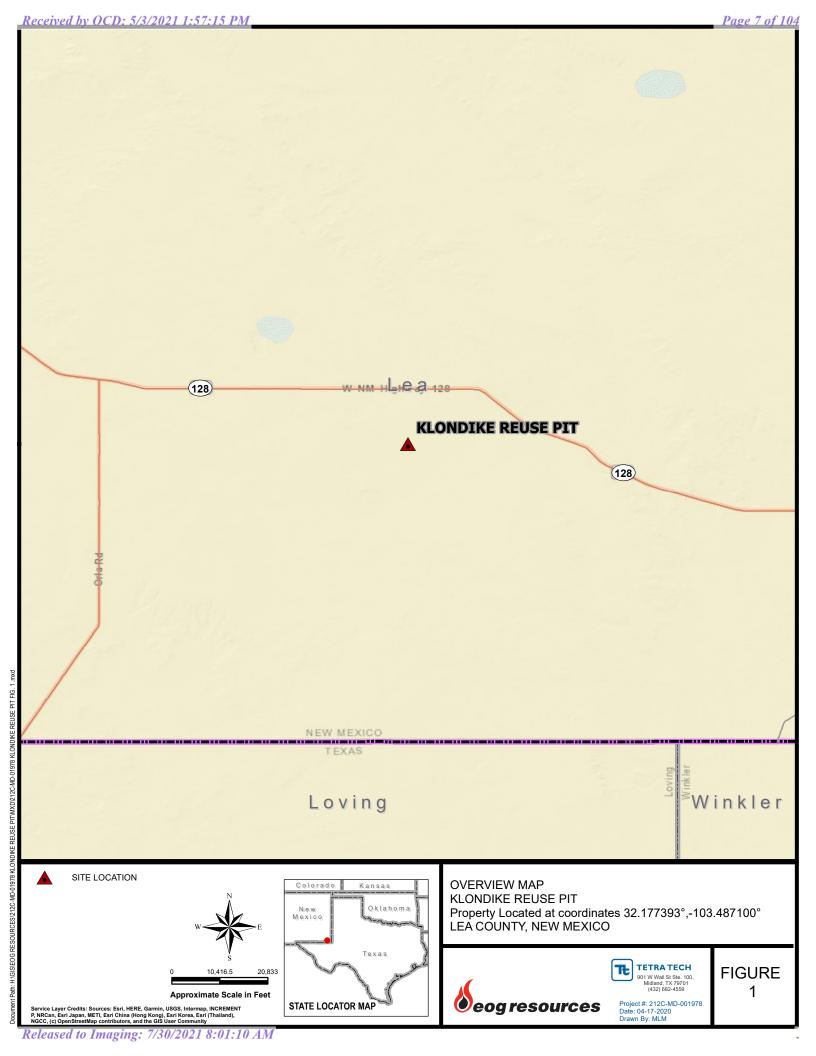
Conclusion

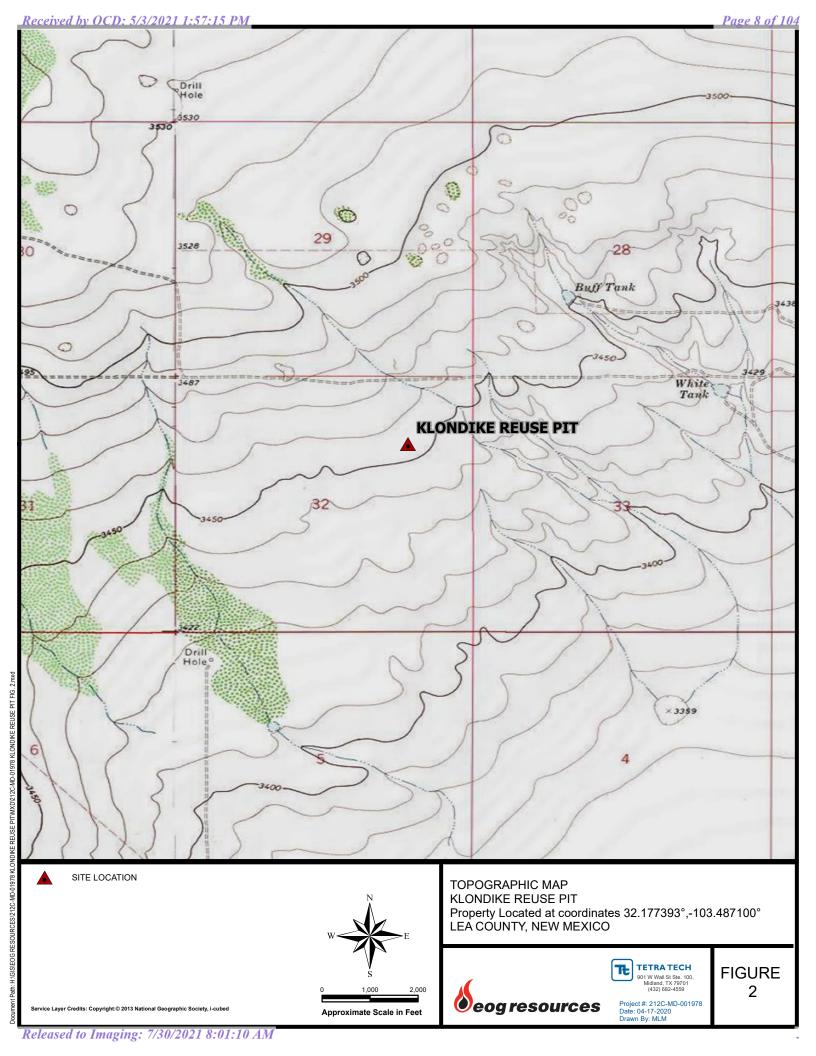
Based on the laboratory results and remediation activities performed, EOG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

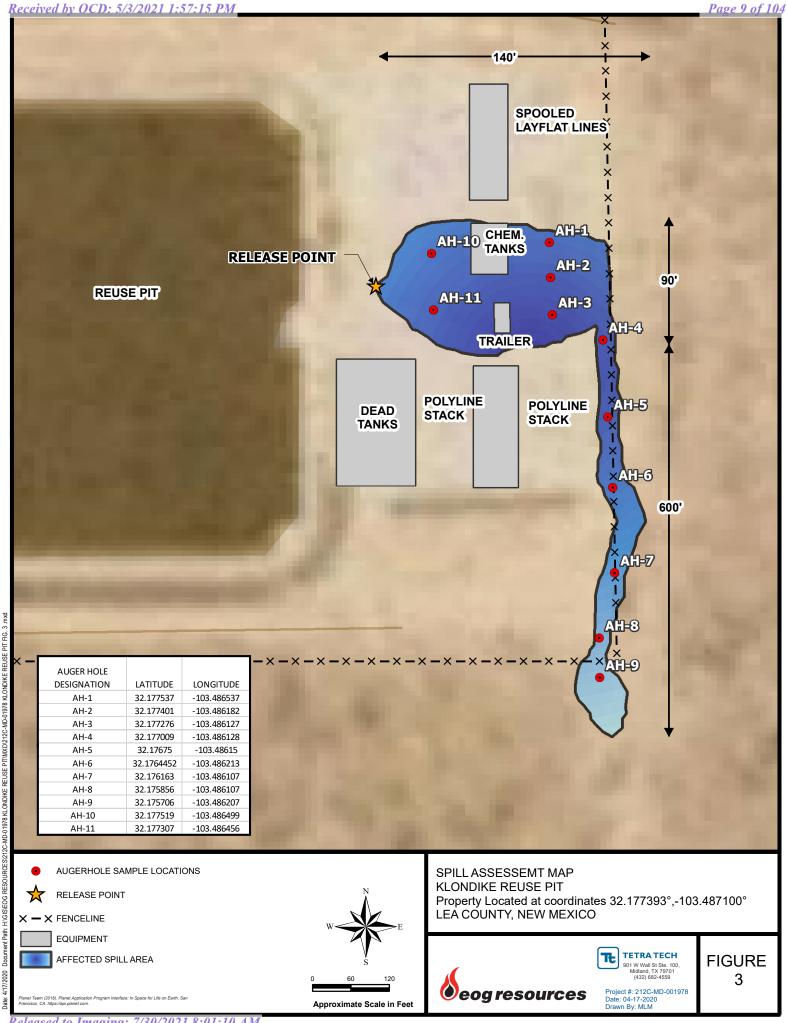
Respectfully submitted, TETRA TECH

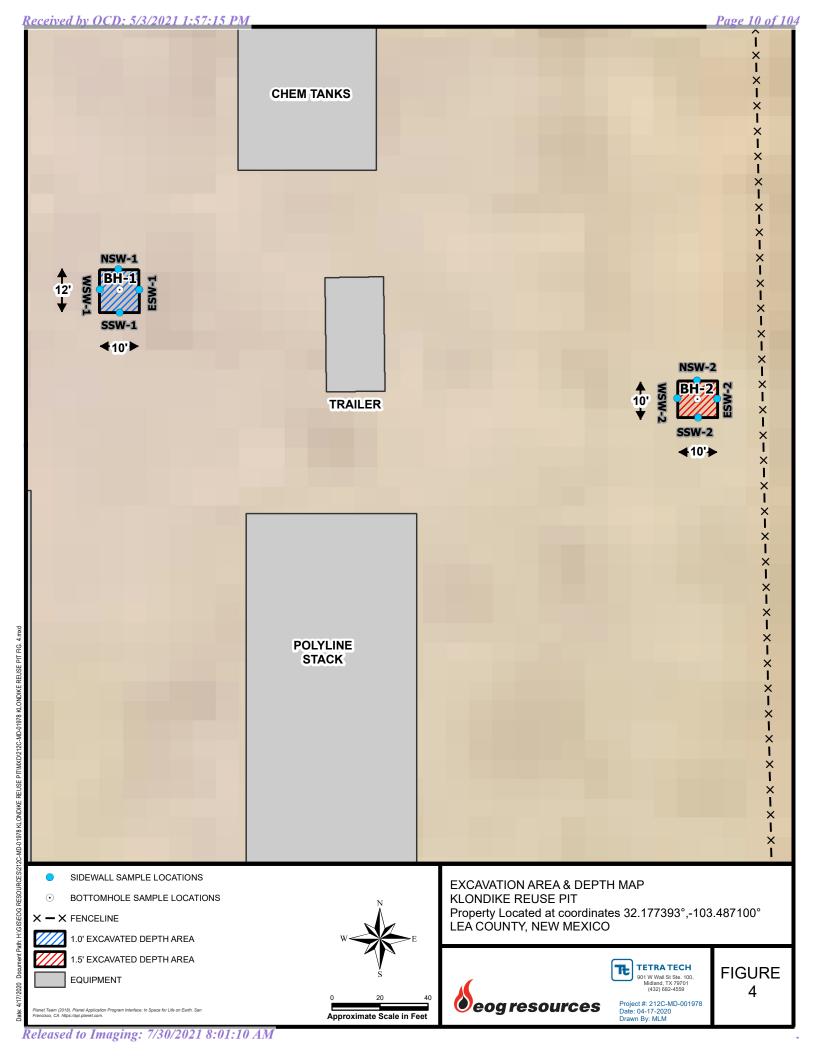
Brittany Long, Project Manager Clair Gonzales, P.G. Senior Project Manager

Figures









Tables

Received by OCD: 5/3/2021 1:57:15 PM

Table 1
EOG
Klondike Reuse Pit
Lea County, New Mexico

Commis ID	Sample Sample SED (6)		Sample	Soil	Status	TPH (mg/kg)			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
Sample ID	Date	BEB (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1	10/18/19	-	0-1	Х		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	195
AH-2	10/18/19	-	0-1	Х		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	110
	"	-	1-1.5	Χ		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	103
	II	-	2-2.5	Х		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	92.6
AH-3	10/18/19	-	0-10"	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	271
AH-4	10/18/19	-	0-6"		Х	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	865
AH-5	10/18/19	-	0-6"	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	107
AH-6	10/18/19	-	0-6"	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	39.6
AH-7	10/18/19	-	0-6"	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	6.26
AH-8	10/18/19	-	0-6"	Х		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	460
AH-9	10/18/19	-	0-1	Х		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	243
AH-10	10/18/19	-	0-1	Х		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	304
AH-11	10/18/19	-	0-1		Х	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	614
	11	-	1-1.5	Х		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	312

(-) Not Analyzed

Removed

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Table 2
EOG
Klondike Reuse Pit
Lea County, New Mexico

Commis ID	Sample Excavation		n Soil Status		TPH (mg/kg)			Benzene Toli	Toluene	Ethlybenzene	/benzene Xylene	Total BTEX	Chloride	
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Bottom Hole-1	3/11/2020	1'	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
Bottom Hole-2	3/11/2020	1.5'	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
N1SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
N2SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
W1SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
W2SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
S1SW	3/11/2020	-		Х	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	672
31344	3/13/2020	-	Х		<50.0	40.1	51.3	91.4	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<9.98
S2SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
E1SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	448
E2SW	3/11/2020	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176

(-) Not Analyzed

Removed

Photos







View North, areas of Auger Holes (1-3)



View North, areas of Auger Holes (4-8)







View South, area of Auger Holes (8-9)



View South, area of Auger Hole (10-11)







View North, area of Bottom Hole (1)



View Southwest, area of Bottom Hole (1)







View South, area of Bottom Hole (2)

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	NRM2006937434
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources						OGRID 7377				
Contact Name Todd Wells					Contact Telephone (432) 686-3613					
Contact email Todd_Wells@eogresources.com					Incident # (assigned by OCD)					
Contact mail 79706	ing address	5509 Champions	Drive Midland,	ТХ	1					
			Location	n of R	Release S	Source				
Latitude 32.1	Latitude 32.177393° Longitude -103.487100° (NAD 83 in decimal degrees to 5 decimal places)									
Site Name K	londike Reu	se Water Pit			Site Type	Reuse Water Pit				
Date Release	Discovered	10/2/19			API# (if ap	pplicable)				
Unit Letter	Section	Township	Range		Cou	nty				
Н	32	24S	34E	Lea						
		l(s) Released (Select a	Nature an			c justification for the ve	volumes provided below)			
Crude Oi		Volume Release	` /			Volume Recove	` '			
Reuse Wa	ater	Volume Release	<u> </u>			Volume Recovered (bbls) 0				
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	chlorid	e in the	Yes No)			
Condensa	ite	Volume Release	ed (bbls)			Volume Recove	ered (bbls)			
Natural C	das	Volume Release	ed (Mcf)			Volume Recove	ered (Mcf)			
Other (describe) Volume/Weight Released (provide units))	Volume/Weigh	nt Recovered (provide units)				
		pumping from on at the pit pad and			der pressure	d up and failed. A	Approximately 100 bbls of reuse water			

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Dan.	ne culcul.	00 t 4	1111
Page		C(24 (4	1740
			,,

Incident ID	NRM2006937434
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls.				
⊠ Yes □ No					
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No				
	Initial Response				
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury				
The source of the rele	ase has been stopped.				
☐ The impacted area ha	s been secured to protect human health and the environment.				
Released materials ha	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.				
	coverable materials have been removed and managed appropriately.				
If all the actions described	l above have <u>not</u> been undertaken, explain why:				
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t 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:Todd W	ells Title: Environmental Specialist				
Signature: <u>Todd</u>	Wells Date: <u>3-5-20</u>				
email: <u>Todd Wells</u>	<u>@eogresources.com</u> Telephone:(432) 686-3613				
OCD Only					
Received by: Ramona	Marcus Date: 3/9/2020				

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Page 3 Oil Conservation Division

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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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	ls.

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.

Received by OCD: 5/3/2021 1:57:15 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 23 of 104
Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ocd does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	
Signature: Todd Wells	
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 5/3/2021 1:57:15 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

	Page 24 of 104
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

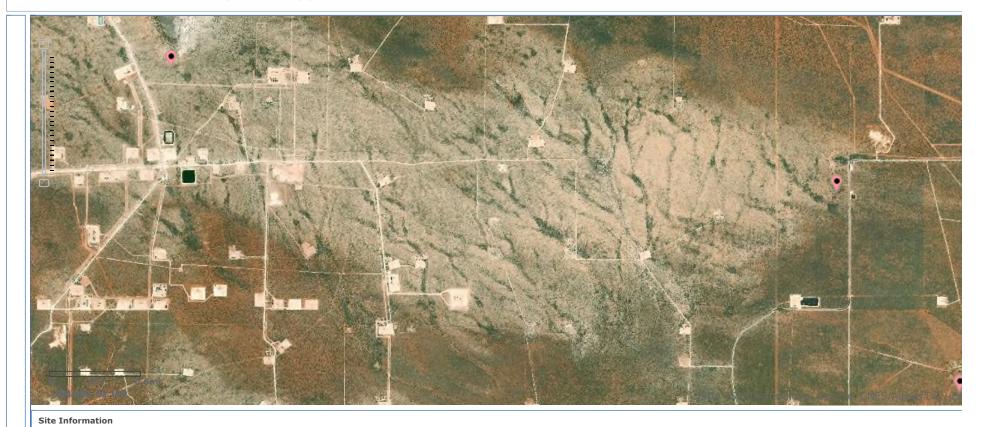
Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 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	C District office must be notified 2 days prior to final sampling)							
☐ Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.							
Printed Name:	Title:							
Signature: Todd Wells	Date:							
email:	Telephone:							
OCD Only								
Received by:	Date:							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date:							
Printed Name:	Title:							

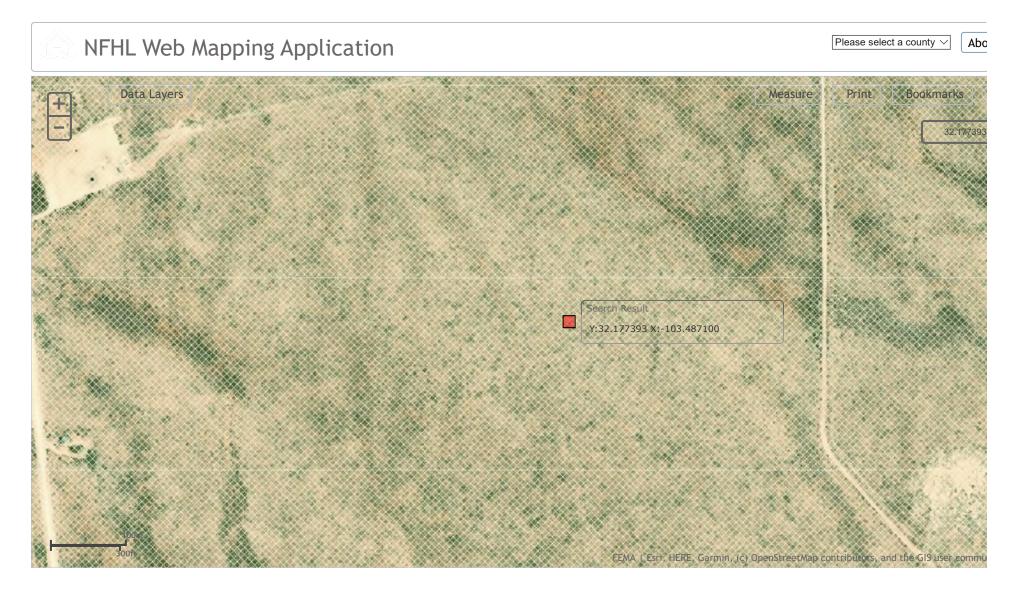
Appendix B



National Water Information System: Mapper



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Received by OCD: 5/3/2021 1:57:15 PM





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	~	GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site no list =

• 321025103263601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

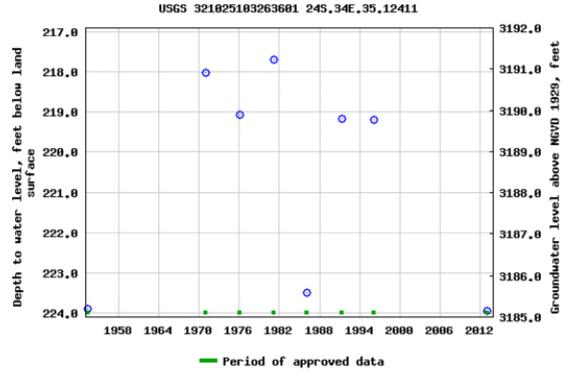
USGS 321025103263601 24S.34E.35.12411

Available data for this site Groundwater: Field measurements

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°10'44.0", Longitude 103°26'31.2" NAD83
Land-surface elevation 3,409.00 feet above NGVD29
The depth of the well is 257 feet below land surface.
This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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



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

Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2019-10-23 10:50:46 EDT

0.81 0.53 nadww01





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 G			: Tws	Rng	X	Y	•	•	Water Column
C 02373	CUB	LE				248		641979	3560916* 🎒	600		
<u>C 02386</u>	CUB	LE	4 1	2	04	248	34E	643962	3569290*	575	475	100
<u>C 02387</u>	CUB	LE		1	11	24S	34E	646513	3567613* 🎒	62	40	22
<u>C 02397</u>	CUB	LE	4 1	2	04	24S	34E	643962	3569290*	575	475	100
C 03932 POD13	CUB	LE	4 2	3	15	248	34E	645314	3565203 🎒	90		
C 03932 POD3	CUB	LE	4 3	2	05	24S	34E	642442	3568787 🌍	100		
C 03932 POD8	CUB	LE	4 2	4	07	24S	34E	641120	3566769 🌕	72		
C 03943 POD1	CUB	LE	2 4	2	21	24S	34E	644523	3564266 🌍	610	431	179
C 04014 POD1	CUB	LE	1 1	3	06	24S	34E	639811	3568638 🌍	91	81	10

Average Depth to Water: 300 feet

> 40 feet Minimum Depth:

> 475 feet Maximum Depth:

Record Count: 9

PLSS Search:

Township: 24S Range: 34E

*UTM location was derived from PLSS - see Help

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

Water Well Data Average Depth to Groundwater (ft) EOG - Klondike Reuse Pit

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

	23 South 34 East				
6 329	5	4	3	2	1 137
7	8 255	9	10	11	12
18	17	16 345	15	14	13
19	20	21	22 282 295	23 233 265	24
30	29	28	27	26	25
31	32 160 130	33	34	35	36

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

	24 5	South	3	3 East	
6	5	4	3	2	1
7	8	9	10 20	11	12
18	17	16	15	14	13
19	20	21	22	23 208	24 16.9
30	29	28	27	26	25
31	32	33 70 93.2	34	35	36

	24 Sc	uth	34		
6 81	5	4	3	2	1
7	8	9	10	11 40	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 224	36

	24 So	uth	35	East	
6	5	4	3	2	1
7	8	9	10 300	11	12
18	17	16	15	14	13
19	20 97	21	22	23	24
30 139	29	28	27	26	25
31	32	33	34	35	36

	25 S	outh	33		
6	5	4	3 172	2	1
	118				
7	8	9	10	11	12
				140	200
18	17	16	15	14	13
					185
19	20	21	22	23	24
	200	120			
30	29	28	27	26	25
			125	110	
31	32	33	34	35	36
190					

	25 Sc	uth	34	East	
6	5	4	3	2	1 260
7	8	9	10	11	12
18	17	16	15 135	14	13
19	20	21	22	23	24 300
30	29 129 50	28	27	26	25
31	32	33	34	35	36

	25 So	uth	35		
6	5	4	3 108	2	1
	165				
7	8	9	10	11	12
18	17	16	15	14	13
230					
19	20	21	22	23	24
		218			
30	29	28	27	26	25
80					
31	32	33	34	35	36

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- 34 NMOCD Groundwater Data
- **121** Abandoned Waterwell (recently measured)

Appendix C

Analytical Report 640378

for Tetra Tech- Midland

Project Manager: Clair Gonzales
EOG Klondike Reuse Pit

23-OCT-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 (2017-142), North Carolina (681)

> 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-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)



Certificate of Analysis Summary 640378

Tetra Tech- Midland, Midland, TX Project Name: EOG Klondike Reuse Pit Page 35 of 104

Project Id:

Contact: Clair Gonzales

Project Location: Lea Co NM

Date Received in Lab: Fri Oct-18-19 08:22 am

Report Date: 23-OCT-19 **Project Manager:** Jessica Kramer

	Lab Id:	640378-0	001	640378-002		640378-003		640378-004		640378-005		640378-006	
Analysis Requested	Field Id:	AH-1 (0-1')		AH-2 (0-1')		AH-2 (1'-1.5')		AH-2 (2'-2.5')		AH3 (0-10")		AH-4 (0-6")	
Anaiysis Requesieu	Depth:	0-1 ft		0-1 ft		1-1.5 ft		2-2.5 ft		0-10 In		0-6 In	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL	,	SOIL	_	SOIL	
	Sampled:	Oct-16-19	10:00	Oct-16-19	10:05	Oct-16-19	10:10	Oct-16-19	10:15	Oct-16-19	10:20	Oct-16-19 10:25	
BTEX by EPA 8021B	Extracted:	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19 16:00	
	Analyzed:	Oct-21-19	22:22	Oct-21-19	18:23	Oct-21-19	18:43	Oct-21-19	19:03	Oct-21-19	19:24	Oct-21-19 19:44	
	Units/RL:	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	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201
Toluene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201
Ethylbenzene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201
m,p-Xylenes		<0.00403 0.00403		< 0.00402	0.00402	< 0.00399	0.00399	< 0.00398	0.00398	< 0.00401	0.00401	< 0.00402	0.00402
o-Xylene		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201
Total Xylenes		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201
Total BTEX		< 0.00202	0.00202	< 0.00201	0.00201	< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201
Chloride by EPA 300	Extracted:	Oct-18-19	12:30	Oct-18-19 12:30		Oct-18-19 12:30		Oct-18-19 12:30		Oct-18-19 12:30		Oct-18-19 12:30	
	Analyzed:	Oct-18-19	19:08	Oct-18-19 19:13		Oct-18-19 19:18		Oct-18-19 19:23		Oct-18-19 19:28		Oct-18-19 19:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		195	4.96	110	5.04	103	4.99	92.6	4.95	271	4.95	865	5.02
TPH By SW8015 Mod	Extracted:	Oct-18-19	16:00	Oct-18-19 16:00		Oct-18-19 16:00		Oct-18-19 16:00		Oct-18-19 16:00		Oct-18-19 16:00	
	Analyzed:	Oct-18-19	Oct-18-19 21:55		Oct-18-19 22:50		Oct-18-19 23:08		Oct-18-19 23:26		23:45	Oct-19-19 00:03	
	Units/RL:	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	< 50.0	50.0
Diesel Range Organics (DRO)		< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.9	49.9	< 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	<49.9	49.9	<50.0	50.0	< 50.0	50.0
Total TPH		< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0	< 50.0	50.0

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

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Version: 1.%

Jessica Kramer Project Assistant

fession Weamer



Certificate of Analysis Summary 640378

Tetra Tech- Midland, Midland, TX Project Name: EOG Klondike Reuse Pit



Project Id:

Project Location:

Contact: Clair Gonzales

Lea Co NM

Date Received in Lab: Fri Oct-18-19 08:22 am

Report Date: 23-OCT-19 **Project Manager:** Jessica Kramer

	Lab Id:	640378-0	007	640378-008		640378-009		640378-010		640378-011		640378-012	
Analysis Requested	Field Id:	AH-5 (0-6")		AH-6 (0-6")		AH-7 (0-6")		AH-8 (0-6")		AH-9 (0-1')		AH-10 (0-1')	
Analysis Requesiea	Depth:	0-6 In		0-6 In		0-6 In		0-6 Iı	ı	0-1 ft		0-1 ft	
	Matrix:	SOIL											
	Sampled:	Oct-16-19	10:30	Oct-16-19	10:35	Oct-16-19 10:40		Oct-16-19	10:45	Oct-16-19	10:50	Oct-16-19 13:05	
BTEX by EPA 8021B	Extracted:	Oct-21-19	16:00	Oct-21-19	16:00	Oct-21-19	16:15	Oct-21-19	16:15	Oct-21-19	16:00	Oct-21-19	16:15
	Analyzed:	Oct-21-19	20:04	Oct-21-19	20:24	Oct-22-19	05:03	Oct-22-19	05:23	Oct-21-19	22:43	Oct-22-19 05:43	
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
m,p-Xylenes		< 0.00399	0.00399	< 0.00400	0.00400	< 0.00399	0.00399	< 0.00400	0.00400	< 0.00403	0.00403	< 0.00401	0.00401
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Chloride by EPA 300	Extracted:	Oct-21-19	14:15	Oct-21-19 14:15									
	Analyzed:	Oct-21-19	14:49	Oct-21-19 15:03		Oct-21-19 15:08		Oct-21-19 15:13		Oct-21-19 15:18		Oct-21-19 15:33	
	Units/RL:	mg/kg	RL										
Chloride		107	5.00	39.6	5.05	6.26	5.05	460	4.96	243	4.99	304	4.98
TPH By SW8015 Mod	Extracted:	Oct-18-19	16:00	Oct-18-19 16:00									
	Analyzed:	Oct-19-19 00:21		Oct-19-19 00:39		Oct-19-19 00:57		Oct-19-19 06:58		Oct-19-19 07:16		Oct-19-19 07:34	
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	< 50.0	50.0	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		<49.9	49.9	< 50.0	50.0	< 50.0	50.0	< 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	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.9	49.9
Total TPH		<49.9	49.9	< 50.0	50.0	< 50.0	50.0	< 50.0	50.0	<49.9	49.9	<49.9	49.9

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Version: 1.%

Jessica Kramer Project Assistant

fession Weamer



Certificate of Analysis Summary 640378

Tetra Tech- Midland, Midland, TX Project Name: EOG Klondike Reuse Pit



Project Id:

Project Location:

Contact: Clair Gonzales

Lea Co NM

Date Received in Lab: Fri Oct-18-19 08:22 am

Report Date: 23-OCT-19 **Project Manager:** Jessica Kramer

	Lab Id:	640378-0	13	640378-0	14			
Analysis Requested	Field Id:	AH-11 (0-	-1')	AH-11 (1'-	1.5')			
Analysis Requesieu	Depth:	0-1 ft		1-1.5 ft				
	Matrix:	SOIL		SOIL				
	Sampled:	Oct-16-19 1	3:10	Oct-16-19 1	3:15			
BTEX by EPA 8021B	Extracted:	Oct-21-19 1	6:15	Oct-21-19 1	6:15			
	Analyzed:	Oct-22-19 ()4:43	Oct-22-19 0	4:22			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		< 0.00199	0.00199	< 0.00201	0.00201			
Toluene		< 0.00199	0.00199	< 0.00201	0.00201			
Ethylbenzene		< 0.00199	0.00199	< 0.00201	0.00201			
m,p-Xylenes		< 0.00398	0.00398	< 0.00402	0.00402			
o-Xylene		< 0.00199	0.00199	< 0.00201	0.00201			
Total Xylenes		< 0.00199	0.00199	< 0.00201	0.00201			
Total BTEX		< 0.00199	0.00199	< 0.00201	0.00201			
Chloride by EPA 300	Extracted:	Oct-21-19 1	4:15	Oct-21-19 1	4:15			
	Analyzed:	Oct-21-19 1	5:38	Oct-21-19 1	6:06			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Chloride		614	5.03	312	5.02			
TPH By SW8015 Mod	Extracted:	Oct-18-19 1	6:00	Oct-18-19 1	6:00			
	Analyzed:	Oct-19-19 (7:53	Oct-19-19 0	8:12			
	Units/RL:	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			

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.

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Version: 1.%

Jessica Kramer Project Assistant

fession Weamer





23-OCT-19

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

Reference: XENCO Report No(s): 640378

EOG Klondike Reuse Pit Project Address: Lea Co NM

Clair Gonzales:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 640378. 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. 640378 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vermer

Project Assistant

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Sample Cross Reference 640378



Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1')	S	10-16-19 10:00	0 - 1 ft	640378-001
AH-2 (0-1')	S	10-16-19 10:05	0 - 1 ft	640378-002
AH-2 (1'-1.5')	S	10-16-19 10:10	1 - 1.5 ft	640378-003
AH-2 (2'-2.5')	S	10-16-19 10:15	2 - 2.5 ft	640378-004
AH3 (0-10")	S	10-16-19 10:20	0 - 10 In	640378-005
AH-4 (0-6")	S	10-16-19 10:25	0 - 6 In	640378-006
AH-5 (0-6")	S	10-16-19 10:30	0 - 6 In	640378-007
AH-6 (0-6")	S	10-16-19 10:35	0 - 6 In	640378-008
AH-7 (0-6")	S	10-16-19 10:40	0 - 6 In	640378-009
AH-8 (0-6")	S	10-16-19 10:45	0 - 6 In	640378-010
AH-9 (0-1')	S	10-16-19 10:50	0 - 1 ft	640378-011
AH-10 (0-1')	S	10-16-19 13:05	0 - 1 ft	640378-012
AH-11 (0-1')	S	10-16-19 13:10	0 - 1 ft	640378-013
AH-11 (1'-1.5')	S	10-16-19 13:15	1 - 1.5 ft	640378-014

CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: EOG Klondike Reuse Pit

Project ID: Report Date: 23-OCT-19
Work Order Number(s): 640378
Date Received: 10/18/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3104981 BTEX by EPA 8021B

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

Batch: LBA-3104984 BTEX by EPA 8021B

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





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-001

Date Collected: 10.16.19 10.00

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

CHE

Prep Method: E300P

Tech: CHE

Analyst:

Date Prep: 10.18.19 12.30

% Moisture:

Basis:

Wet Weight

Seq Number: 3104804

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 195
 4.96
 mg/kg
 10.18.19 19.08
 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 10.18.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.18.19 21.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.18.19 21.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.18.19 21.55	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.18.19 21.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	117	%	70-135	10.18.19 21.55		
o-Terphenyl	84	4-15-1	119	%	70-135	10.18.19 21.55		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-001 Date Collected: 10.16.19 10.00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep: 10.21.19 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.21.19 22.22	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.21.19 22.22	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.21.19 22.22	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.21.19 22.22	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.21.19 22.22	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.21.19 22.22	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.21.19 22.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	83	%	70-130	10.21.19 22.22		
4-Bromofluorobenzene		460-00-4	109	%	70-130	10.21.19 22.22		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-002

Date Collected: 10.16.19 10.05

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

Chloride

CHE

Date Prep:

RL

5.04

Result

110

16887-00-6

Basis:

Units

mg/kg

Wet Weight

CHE Analyst: Seq Number: 3104804

Parameter Cas Number 10.18.19 12.30

Dil

1

Flag

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Analysis Date

10.18.19 19.13

Tech:

DVM

% Moisture:

ARM Analyst:

10.18.19 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.18.19 22.50	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.18.19 22.50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.18.19 22.50	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.18.19 22.50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	113	%	70-135	10.18.19 22.50		
o-Terphenyl	84	1-15-1	113	%	70-135	10.18.19 22.50		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-002

Date Collected: 10.16.19 10.05

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ Date Prep: 10.21.19 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.21.19 18.23	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.21.19 18.23	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.21.19 18.23	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.21.19 18.23	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.21.19 18.23	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.21.19 18.23	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.21.19 18.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	70-130	10.21.19 18.23		
4-Bromofluorobenzene		460-00-4	113	%	70-130	10.21.19 18.23		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-003

Date Collected: 10.16.19 10.10

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

Date Prep: 10.18.19 12.30 Basis:

Wet Weight

Seq Number: 3104804

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	4.99	mg/kg	10.18.19 19.18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.18.19 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.18.19 23.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.18.19 23.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.18.19 23.08	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.18.19 23.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	103	%	70-135	10.18.19 23.08		
o-Terphenyl	84	4-15-1	104	%	70-135	10.18.19 23.08		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-003

Date Collected: 10.16.19 10.10

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Seq Number: 3104981

% Moisture:

. M. . .

Analyst: ALJ

Date Prep: 10.21.19 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	10.21.19 18.43	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	10.21.19 18.43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	10.21.19 18.43	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	10.21.19 18.43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	10.21.19 18.43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	10.21.19 18.43	U	1

Tota	al BTEX	< 0.00200	0.00200		mg/kg	10.21.19 18.43	U	1
	Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	1,4-Difluorobenzene	540-36-3	85	%	70-130	10.21.19 18.43		
	4-Bromofluorobenzene	460-00-4	116	%	70-130	10.21.19 18.43		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-004

Date Collected: 10.16.19 10.15

10.18.19 12.30

Sample Depth: 2 - 2.5 ft

Analytical Method: Chloride by EPA 300

CHE

Prep Method: E300P

Tech: CHE

Analyst:

Date Prep:

% Moisture: Basis:

Wet Weight

Seq Number: 3104804

seq rumber. 3104004

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 92.6
 4.95
 mg/kg
 10.18.19 19.23
 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 10.18.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.18.19 23.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.18.19 23.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.18.19 23.26	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.18.19 23.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	103	%	70-135	10.18.19 23.26		
o-Terphenyl	84	4-15-1	104	%	70-135	10.18.19 23.26		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

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

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-004

Date Collected: 10.16.19 10.15

Sample Depth: 2 - 2.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

10.21.19 16.00

Basis: We

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.21.19 19.03	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.21.19 19.03	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.21.19 19.03	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.21.19 19.03	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.21.19 19.03	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.21.19 19.03	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.21.19 19.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.21.19 19.03		
1,4-Difluorobenzene		540-36-3	86	%	70-130	10.21.19 19.03		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH3 (0-10")**

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-005

Date Collected: 10.16.19 10.20

Sample Depth: 0 - 10 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:
Analyst:

CHE CHE

Date Prep: 10.18.19 12.30

% Moisture:

Basis:

Wet Weight

Seq Number: 3104804

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 271
 4.95
 mg/kg
 10.18.19 19.28
 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 10.18.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.18.19 23.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.18.19 23.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.18.19 23.45	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.18.19 23.45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	11-85-3	105	%	70-135	10.18.19 23.45		
o-Terphenyl	84	4-15-1	105	%	70-135	10.18.19 23.45		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH3 (0-10")

Matrix: Soil Date Received:10.18.19 08.22

Date Collected: 10.16.19 10.20

Sample Depth: 0 - 10 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Lab Sample Id: 640378-005

% Moisture:

Analyst: ALJ

Date Prep:

10.21.19 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.21.19 19.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.21.19 19.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.21.19 19.24	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.21.19 19.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.21.19 19.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.21.19 19.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.21.19 19.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	87	%	70-130	10.21.19 19.24		
4-Bromofluorobenzene		460-00-4	109	%	70-130	10.21.19 19.24		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-4** (**0-6''**)

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-006

Date Collected: 10.16.19 10.25

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

CHE

Date Prep:

% Moisture:

Basis:

Analyst: CHE

10.18.19 12.30

Wet Weight

Seq Number: 3104804

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	865	5.02	mg/kg	10.18.19 19.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 10.18.19 16.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.19.19 00.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.19.19 00.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.19.19 00.03	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.19.19 00.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	105	%	70-135	10.19.19 00.03		
o-Terphenyl	8	34-15-1	104	%	70-135	10.19.19 00.03		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-4** (**0-6**")

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-006

Date Collected: 10.16.19 10.25

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

10.21.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.21.19 19.44	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.21.19 19.44	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.21.19 19.44	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.21.19 19.44	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.21.19 19.44	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.21.19 19.44	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.21.19 19.44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	108	%	70-130	10.21.19 19.44		
1,4-Difluorobenzene		540-36-3	87	%	70-130	10.21.19 19.44		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH-5 (0-6")

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-007

Date Collected: 10.16.19 10.30

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

Date Prep:

10.21.19 14.15

Basis:

Wet Weight

Seq Number: 3104929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	107	5.00	mg/kg	10.21.19 14.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.18.19 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.19.19 00.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.19.19 00.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.19.19 00.21	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.19.19 00.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	11-85-3	102	%	70-135	10.19.19 00.21		
o-Terphenyl	84	4-15-1	103	%	70-135	10.19.19 00.21		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH-5 (0-6") Matrix: Soil Date Received:10.18.19 08.22

Lab Sample Id: 640378-007

Date Collected: 10.16.19 10.30

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst:

ALJ

10.21.19 16.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.21.19 20.04	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.21.19 20.04	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.21.19 20.04	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.21.19 20.04	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.21.19 20.04	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.21.19 20.04	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.21.19 20.04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	88	%	70-130	10.21.19 20.04		
4-Bromofluorobenzene		460-00-4	119	%	70-130	10.21.19 20.04		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-6** (**0-6**")

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-008

Date Collected: 10.16.19 10.35

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 10.21.19 14.15

Basis:

Wet Weight

Seq Number: 3104929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.6	5.05	mg/kg	10.21.19 15.03		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 10.18.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.19.19 00.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.19.19 00.39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.19.19 00.39	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.19.19 00.39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	100	%	70-135	10.19.19 00.39		
o-Terphenyl	84	4-15-1	102	%	70-135	10.19.19 00.39		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-6** (**0-6**")

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-008

Date Collected: 10.16.19 10.35

10.21.19 16.00

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.21.19 20.24	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.21.19 20.24	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.21.19 20.24	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.21.19 20.24	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.21.19 20.24	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.21.19 20.24	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.21.19 20.24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	122	%	70-130	10.21.19 20.24		
1,4-Difluorobenzene		540-36-3	84	%	70-130	10.21.19 20.24		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH-7 (0-6")

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-009

Date Collected: 10.16.19 10.40

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

Date Prep:

10.21.19 14.15 Basis: Wet Weight

Seq Number: 3104929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.26	5.05	mg/kg	10.21.19 15.08		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

DVM

% Moisture:

ARM Analyst:

Tech:

10.18.19 16.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.19.19 00.57	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.19.19 00.57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.19.19 00.57	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.19.19 00.57	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	101	%	70-135	10.19.19 00.57		
o-Terphenyl	84	1-15-1	102	%	70-135	10.19.19 00.57		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-7** (**0-6''**)

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-009

Date Collected: 10.16.19 10.40

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

ALJ

Prep Method: SW5030B

Tech: ALJ

% MO1

% Moisture:

Analyst:

Date Prep:

10.21.19 16.15

Basis: Wet Weight

Seq Number:	3104984

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.22.19 05.03	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.22.19 05.03	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.22.19 05.03	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	10.22.19 05.03	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.22.19 05.03	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.22.19 05.03	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.22.19 05.03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	10.22.19 05.03		
1,4-Difluorobenzene		540-36-3	72	%	70-130	10.22.19 05.03		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-8** (**0-6**")

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-010

Date Collected: 10.16.19 10.45

Sample Depth: 0 - 6 In

Analytical Method: Chloride by EPA 300

Prep Method: E300P

0/-

% Moisture:

Tech: CHE

Analyst:

CHE

10.21.19 14.15

Basis:

Wet Weight

Seq Number: 3104929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	460	4.96	mg/kg	10.21.19 15.13		1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep: 10.18.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.19.19 06.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.19.19 06.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.19.19 06.58	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.19.19 06.58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	101	%	70-135	10.19.19 06.58		
o-Terphenyl	84	4-15-1	102	%	70-135	10.19.19 06.58		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-8** (**0-6**")

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-010

Date Collected: 10.16.19 10.45

Sample Depth: 0 - 6 In

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep:

10.21.19 16.15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.22.19 05.23	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.22.19 05.23	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.22.19 05.23	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	10.22.19 05.23	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.22.19 05.23	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.22.19 05.23	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.22.19 05.23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	106	%	70-130	10.22.19 05.23		
1,4-Difluorobenzene		540-36-3	92	%	70-130	10.22.19 05.23		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH-9 (0-1')

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-011

Date Collected: 10.16.19 10.50

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

CHE Analyst:

10.21.19 14.15 Date Prep:

Basis:

Wet Weight

Seq Number: 3104929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	243	4.99	mg/kg	10.21.19 15.18		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.18.19 16.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.19.19 07.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.19.19 07.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.19.19 07.16	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.19.19 07.16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	11	11-85-3	103	%	70-135	10.19.19 07.16		
o-Terphenyl	84	4-15-1	104	%	70-135	10.19.19 07.16		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-9 (0-1')**

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-011

Date Collected: 10.16.19 10.50

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

ALJ

Prep Method: SW5030B

Tech: ALJ

Analyst:

Date Prep: 10.21.19 16.00

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	10.21.19 22.43	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	10.21.19 22.43	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	10.21.19 22.43	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	10.21.19 22.43	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	10.21.19 22.43	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	10.21.19 22.43	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	10.21.19 22.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	10.21.19 22.43		
1,4-Difluorobenzene		540-36-3	89	%	70-130	10.21.19 22.43		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH-10 (0-1')

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-012

Date Collected: 10.16.19 13.05

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

CHE CHE % Moisture:

Basis: Wet Weight

Seq Number: 3104929

Parameter Cas Number Result RL Units **Analysis Date** Flag Dil Chloride 16887-00-6 304 10.21.19 15.33 4.98 mg/kg 1

Date Prep:

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DVM ARM

Date Prep:

10.18.19 16.00

10.21.19 14.15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.19.19 07.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.19.19 07.34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.19.19 07.34	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.19.19 07.34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	99	%	70-135	10.19.19 07.34		
o-Terphenyl	84	4-15-1	99	%	70-135	10.19.19 07.34		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

10.21.19 16.15

Sample Id: AH-10 (0-1') Matrix: Soil Date Received:10.18.19 08.22

Lab Sample Id: 640378-012

Date Collected: 10.16.19 13.05

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Date Prep:

% Moisture:

Analyst:

ALJ

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	10.22.19 05.43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	10.22.19 05.43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	10.22.19 05.43	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	10.22.19 05.43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	10.22.19 05.43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	10.22.19 05.43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	10.22.19 05.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	72	%	70-130	10.22.19 05.43		
4-Bromofluorobenzene		460-00-4	110	%	70-130	10.22.19 05.43		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-11** (**0-1'**)

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-013

Date Collected: 10.16.19 13.10

Sample Depth: 0 - 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Analyst: CHE

Date Prep: 10.21.19 14.15

Basis:

Wet Weight

Seq Number: 3104929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	614	5.03	mg/kg	10.21.19 15.38		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

Analyst: ARM

Date Prep: 10.18.19 16.00

Basis:

Wet Weight

Parameter	Cas Number	Cas Number Result		RL		Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.19.19 07.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.19.19 07.53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.19.19 07.53	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.19.19 07.53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	104	%	70-135	10.19.19 07.53		
o-Terphenyl	84	1 -15-1	105	%	70-135	10.19.19 07.53		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-11** (**0-1'**)

Matrix: Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-013

Date Collected: 10.16.19 13.10

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

10.21.19 16.15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	10.22.19 04.43	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	10.22.19 04.43	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	10.22.19 04.43	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	10.22.19 04.43	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	10.22.19 04.43	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	10.22.19 04.43	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	10.22.19 04.43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	10.22.19 04.43		
1,4-Difluorobenzene		540-36-3	90	%	70-130	10.22.19 04.43		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: AH-11 (1'-1.5')

Soil Matrix:

Date Received:10.18.19 08.22

Lab Sample Id: 640378-014

Date Collected: 10.16.19 13.15

Sample Depth: 1 - 1.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

CHE

% Moisture:

Basis:

CHE Analyst:

Date Prep:

10.21.19 14.15

Wet Weight

Seq Number: 3104929

Parameter Cas Number Result RL Units **Analysis Date** Flag Dil Chloride 16887-00-6 312 5.02 10.21.19 16.06 mg/kg 1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech:

DVM

% Moisture:

ARM Analyst:

10.18.19 16.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	10.19.19 08.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	10.19.19 08.12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	10.19.19 08.12	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	10.19.19 08.12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	1	11-85-3	100	%	70-135	10.19.19 08.12		
o-Terphenyl	84	4-15-1	101	%	70-135	10.19.19 08.12		





Tetra Tech- Midland, Midland, TX

EOG Klondike Reuse Pit

Sample Id: **AH-11** (1'-1.5')

Soil

Date Received:10.18.19 08.22

Lab Sample Id: 640378-014

Date Collected: 10.16.19 13.15

Sample Depth: 1 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

% Moisture:

Analyst: ALJ

Date Prep:

Matrix:

10.21.19 16.15

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	10.22.19 04.22	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	10.22.19 04.22	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	10.22.19 04.22	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	10.22.19 04.22	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	10.22.19 04.22	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	10.22.19 04.22	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	10.22.19 04.22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	92	%	70-130	10.22.19 04.22		
4-Bromofluorobenzene		460-00-4	96	%	70-130	10.22.19 04.22		



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.

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

^{**} Surrogate recovered outside laboratory control limit.

E300P

E300P

E300P

Prep Method:

Flag

Flag

LCSD Sample Id: 7688428-1-BSD

10.18.19

Prep Method:

Date Prep:



Seq Number:

QC Summary 640378

Tetra Tech- Midland EOG Klondike Reuse Pit

Analytical Method: Chloride by EPA 300

3104804 Matrix: Solid

LCS Sample Id: 7688428-1-BKS MB Sample Id: 7688428-1-BLK

Spike LCS %RPD RPD Limit Units MR LCS Limits Analysis LCSD LCSD Flag **Parameter** Result **Amount** Result %Rec %Rec Date Result 10.18.19 17:08 Chloride < 5.00 250 272 109 267 107 90-110 2 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3104929 Matrix: Solid Date Prep: 10.21.19

MB Sample Id: 7688536-1-BLK LCS Sample Id: 7688536-1-BKS LCSD Sample Id: 7688536-1-BSD

Spike MB LCS LCS Limits %RPD RPD Limit Units LCSD LCSD **Analysis** Flag **Parameter** Result %Rec Result Amount Result %Rec Date Chloride < 5.00 250 257 103 254 102 90-110 20 mg/kg 10.21.19 14:31

Analytical Method: Chloride by EPA 300

Prep Method: 3104804 Matrix: Soil Seq Number: Date Prep: 10.18.19

MSD Sample Id: 640388-004 SD MS Sample Id: 640388-004 S 640388-004 Parent Sample Id:

MS MS %RPD RPD Limit Units **Parent** Spike **MSD MSD** Limits **Analysis Parameter** Result Amount Result %Rec Date Result %Rec Chloride 37.5 248 287 101 288 101 90-110 0 20 10.18.19 17:23 mg/kg

Analytical Method: Chloride by EPA 300

3104804 Matrix: Soil Seq Number: Date Prep: 10.18.19

640389-007 S MSD Sample Id: 640389-007 SD 640389-007 MS Sample Id: Parent Sample Id: %RPD RPD Limit Units MS MS Parent Spike **MSD MSD** Limits **Analysis**

Parameter Result %Rec Date Result Amount Result %Rec Chloride 669 200 877 104 885 90-110 20 10.18.19 18:33 108 mg/kg 1

Analytical Method: Chloride by EPA 300

E300P Prep Method: 3104929 Matrix: Soil Seq Number: Date Prep: 10.21.19

Parent Sample Id: 640378-007 MS Sample Id: 640378-007 S MSD Sample Id: 640378-007 SD

Parent Spike MS MS **MSD** Limits %RPD RPD Limit Units **Analysis MSD** Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 107 250 368 104 372 106 90-110 20 mg/kg 10.21.19 14:54

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

Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result = MS/LCS Result = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



Seq Number:

QC Summary 640378

Tetra Tech- Midland

EOG Klondike Reuse Pit

Analytical Method: Chloride by EPA 300

3104929 Matrix: Soil

MS Sample Id: 640378-014 S Parent Sample Id: 640378-014

E300P Prep Method:

Date Prep:

Date Prep: 10.21.19 MSD Sample Id: 640378-014 SD

%RPD RPD Limit Units Spike MS Parent MS MSD Limits **MSD** Analysis Flag **Parameter** Result **Amount** Result %Rec Date Result %Rec 10.21.19 16:11 Chloride 312 251 572 104 563 100 90-110 2 20 mg/kg

Analytical Method: TPH By SW8015 Mod

Seq Number: 3104814

Matrix: Solid

SW8015P Prep Method:

10.18.19

MB Sample Id: 7688470-1-BLK LCS Sample Id: 7688470-1-BKS LCSD Sample Id: 7688470-1-BSD

MB Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD **Analysis Parameter** %Rec Result **Amount** Result %Rec Date Result Gasoline Range Hydrocarbons (GRO) 1000 1170 117 1180 118 70-135 20 mg/kg 10.18.19 21:18 <15.0 1000 1030 103 1020 70-135 20 10.18.19 21:18 Diesel Range Organics (DRO) <15.0 102 mg/kg

MB MB LCS LCS LCSD LCSD Limits Units **Analysis** Surrogate Flag Flag Flag %Rec %Rec Date %Rec 10.18.19 21:18 1-Chlorooctane 99 125 124 70-135 % 101 109 109 70-135 10.18.19 21:18 o-Terphenyl %

Analytical Method: TPH By SW8015 Mod

Seq Number: 3104814

Motor Oil Range Hydrocarbons (MRO)

Matrix: Solid

Prep Method: Date Prep:

SW8015P 10.18.19

MB Sample Id: 7688470-1-BLK

MB **Parameter**

Result

1140

Units

Analysis Flag Date

Flag

10.18.19 21:00 < 50.0 mg/kg

Analytical Method: TPH By SW8015 Mod

Seq Number: Parent Sample Id:

Diesel Range Organics (DRO)

3104814 640378-001

MS Sample Id: 640378-001 S

Matrix: Soil

1180

118

70-135

3

Prep Method:

20

SW8015P

10.18.19 22:13

Date Prep: 10.18.19

MSD Sample Id: 640378-001 SD

mg/kg

%RPD RPD Limit Units MS MS Parent Spike **MSD** MSD Limits Analysis Flag **Parameter** Result Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 10.18.19 22:13 <15.0 998 1190 119 1210 121 70-135 2 20 mg/kg

MS MS **MSD** MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 10.18.19 22:13 1-Chlorooctane 128 126 70-135 % o-Terphenyl 120 90 70-135 % 10.18.19 22:13

114

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

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

<15.0

998

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result

= MSD/LCSD Result

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

10.21.19 16:03

Analysis

Flag

Flag



4-Bromofluorobenzene

QC Summary 640378

Tetra Tech- Midland

EOG Klondike Reuse Pit

124

LCSD

LCSD

70-130

Limits

Units

Analytical Method:BTEX by EPA 8021BPrep Method:SW 5030BSeq Number:3104981Matrix:SolidDate Prep:10.21.19

MB Sample Id: 7688612-1-BLK LCS Sample Id: 7688612-1-BKS LCSD Sample Id: 7688612-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RP	D RPD Lim	it Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.109	109	0.104	104	70-130	5	35	mg/kg	10.21.19 16:03	
Toluene	< 0.00200	0.100	0.110	110	0.107	107	70-130	3	35	mg/kg	10.21.19 16:03	
Ethylbenzene	< 0.00200	0.100	0.123	123	0.120	120	70-130	2	35	mg/kg	10.21.19 16:03	
m,p-Xylenes	< 0.00400	0.200	0.248	124	0.242	121	70-130	2	35	mg/kg	10.21.19 16:03	
o-Xylene	< 0.00200	0.100	0.126	126	0.125	125	70-130	1	35	mg/kg	10.21.19 16:03	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	85		Ģ	90		88			70-130	%	10.21.19 16:03	

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

125

 Seq Number:
 3104984
 Matrix:
 Solid
 Date Prep:
 10.21.19

 MB Sample Id:
 7688615-1-BLK
 LCS Sample Id:
 7688615-1-BKS
 LCSD Sample Id:
 7688615-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date
Benzene	< 0.00200	0.100	0.109	109	0.104	104	70-130	5	35	mg/kg	10.21.19 16:03
Toluene	< 0.00200	0.100	0.110	110	0.107	107	70-130	3	35	mg/kg	10.21.19 16:03
Ethylbenzene	< 0.00200	0.100	0.123	123	0.120	120	70-130	2	35	mg/kg	10.21.19 16:03
m,p-Xylenes	< 0.00400	0.200	0.248	124	0.242	121	70-130	2	35	mg/kg	10.21.19 16:03
o-Xylene	< 0.00200	0.100	0.126	126	0.125	125	70-130	1	35	mg/kg	10.21.19 16:03

Surrogate	%Rec	Flag	%Rec	Flag	%Rec	Flag		Date
1,4-Difluorobenzene	85		90		88	70-130	%	10.21.19 16:03
4-Bromofluorobenzene	103		125		124	70-130	%	10.21.19 16:03

LCS

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

LCS

 Seq Number:
 3104981
 Matrix:
 Soil
 Date Prep:
 10.21.19

 Parent Sample Id:
 640553-001
 MS Sample Id:
 640553-001 S
 MSD Sample Id:
 640553-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date
Benzene	< 0.00199	0.0994	0.0907	91	0.0870	87	70-130	4	35	mg/kg	10.21.19 16:44
Toluene	< 0.00199	0.0994	0.0895	90	0.0865	87	70-130	3	35	mg/kg	10.21.19 16:44
Ethylbenzene	< 0.00199	0.0994	0.0976	98	0.0946	95	70-130	3	35	mg/kg	10.21.19 16:44
m,p-Xylenes	< 0.00398	0.199	0.196	98	0.190	95	70-130	3	35	mg/kg	10.21.19 16:44
o-Xylene	< 0.00199	0.0994	0.0999	101	0.0970	97	70-130	3	35	mg/kg	10.21.19 16:44

Surrogate		MS MSD Flag %Rec	MSD Limits Flag	Units	Analysis Date
1,4-Difluorobenzene	90	90	70-130	%	10.21.19 16:44
4-Bromofluorobenzene	117	117	70-130	%	10.21.19 16:44

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference
$$\begin{split} [D] &= 100*(C\text{-A}) \, / \, B \\ RPD &= 200* \mid (C\text{-E}) \, / \, (C\text{+E}) \mid \\ [D] &= 100*(C) \, / \, [B] \end{split}$$

103

MB

MB

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result C = MS/LCS Result

E = MS/LCS ResultE = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



QC Summary 640378

Tetra Tech- Midland

EOG Klondike Reuse Pit

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B 3104984 Matrix: Soil

Seq Number: Date Prep: 10.21.19 nle Id: 640378-014 \$ 640378-014 SD

Parent Sample Id:	640378-014		MS San	nple Id:	640378-0	14 S		MS	SD Sampl	e Id: 640.	378-014 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lin	nit Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.0814	81	0.0776	78	70-130	5	35	mg/kg	10.22.19 03:03	
Toluene	< 0.00202	0.101	0.0822	81	0.0757	76	70-130	8	35	mg/kg	10.22.19 03:03	
Ethylbenzene	< 0.00202	0.101	0.0903	89	0.0806	81	70-130	11	35	mg/kg	10.22.19 03:03	
m,p-Xylenes	< 0.00403	0.202	0.182	90	0.160	80	70-130	13	35	mg/kg	10.22.19 03:03	
o-Xylene	< 0.00202	0.101	0.0960	95	0.0840	84	70-130	13	35	mg/kg	10.22.19 03:03	
Surrogate				AS Rec	MS Flag	MSD %Rec		_	Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	39		90		7	0-130	%	10.22.19 03:03	
4-Bromofluorobenzene	•		1	20		111		7	0-130	%	10.22.19 03:03	

Released to Imaging: 7/30/2021 8:

Project Name: Relinquished by: Relinquished by Analysis Request of Chain of Custody Record Receiving Laboratory: nvoice to: roject Location: lient Name: LAB USE LAB# 4 Bill Direct to EOG Attention Todd Wells AH-8 (0-6") AH-7 (0-6") AH-6 (0-6") AH-5 (0-6") AH-4 (0-6") AH-3 (0-10") AH-2 (2'-2.5') AH-2 (1'-1.5') AH-2 (0-1') AH-1 (0-1') Xenco Lea Co NM EOG Klondike Reuse Pit Letra Tech, Inc. SAMPLE IDENTIFICATION Date: Time: ORIGINAL COPY Received by: Project #: 10/16/2019 10/16/2019 10/16/2019 10/16/2019 10/16/2019 10/16/2019 10/16/2019 10/16/2019 10/16/2019 10/16/2019 DATE SAMPLING 10:45 10:30 10:40 10:35 10:25 10:20 10:15 10:10 10:05 10:00 TIME WATER Clair Gonzales MATRIX 4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 × × × × × × SOIL Clint Merritt Date: HCL PRESERVATIVE METHOD HNO₃ ICE Time: Time # CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 8260B (Circle) HAND DELIVERED Sample Temperature TPH TX1005 (Ext to C35) LAB USE ONLY TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method No. Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles REMARKS: ANALYSIS REQUEST TCLP Semi Volatiles Rush Charges Authorized RUSH: Same Day 24 hr Special Report Limits or TRRP Report FEDEX RCI GC/MS Vol. 8260B / 624 UPS GC/MS Semi. Vol. PCB's 8082 / 608 NORM Page PLM (Asbestos) × Chloride TDS Sulfate 48 hr 72 hr General Water Chemistry (see attached list) Anion/Cation Balance TOX 으

Final 1.001



March 12, 2020

MIKE CARMONA
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: KLONDIKE REUSE PIT

Enclosed are the results of analyses for samples received by the laboratory on 03/11/20 15:45.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH MIKE CARMONA 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Project Location: EOG - LEA CO, NM

Sample ID: BOTTOM HOLE #1 (1' BEB) (H000772-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/12/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	100 5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	110 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact
Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Project Location: EOG - LEA CO, NM

Sample ID: BOTTOM HOLE #2 (1.5' BEB) (H000772-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/12/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	105	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact
Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: EOG - LEA CO, NM

Sample ID: NORTH 1 SIDEWALL (H000772-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/12/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	95.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact
Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: EOG - LEA CO, NM

mg/kg

Sample ID: NORTH 2 SIDEWALL (H000772-04)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/12/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	112	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact
Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Sample ID: EAST 1 SIDEWALL (H000772-05)

EOG - LEA CO, NM

Project Location:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/12/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	96.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	104	% 42.2-15	6						

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Celey D. Keene

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Sample ID: EAST 2 SIDEWALL (H000772-06)

EOG - LEA CO, NM

Project Location:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/12/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	96.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103 9	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact
Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: EOG - LEA CO, NM

mg/kg

Sample ID: SOUTH 1 SIDEWALL (H000772-07)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	03/12/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	98.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

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Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name: KLONDIKE REUSE PIT Sampling Condition: Cool & Intact
Project Number: 212C-MD-01978 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: EOG - LEA CO, NM

mg/kg

Sample ID: SOUTH 2 SIDEWALL (H000772-08)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/12/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	95.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	103	% 42.2-15	6						

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Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name:KLONDIKE REUSE PITSampling Condition:Cool & IntactProject Number:212C-MD-01978Sample Received By:Jodi HensonProject Location:EOG - LEA CO, NM

Analyzed By: MS

Sample ID: WEST 1 SIDEWALL (H000772-09) BTEX 8021B mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/12/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	97.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	108	% 42.2-15	6						

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Analytical Results For:

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

Received: 03/11/2020 Sampling Date: 03/11/2020

Reported: 03/12/2020 Sampling Type: Soil

Project Name:KLONDIKE REUSE PITSampling Condition:Cool & IntactProject Number:212C-MD-01978Sample Received By:Jodi HensonProject Location:EOG - LEA CO, NM

Analyzed By: MS

mg/kg

Sample ID: WEST 2 SIDEWALL (H000772-10)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2020	ND	1.81	90.4	2.00	10.7	
Toluene*	<0.050	0.050	03/11/2020	ND	1.81	90.6	2.00	10.1	
Ethylbenzene*	<0.050	0.050	03/11/2020	ND	1.83	91.4	2.00	10.7	
Total Xylenes*	<0.150	0.150	03/11/2020	ND	5.28	88.0	6.00	11.0	
Total BTEX	<0.300	0.300	03/11/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/12/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/12/2020	ND	212	106	200	2.42	
DRO >C10-C28*	<10.0	10.0	03/12/2020	ND	231	115	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	03/12/2020	ND					
Surrogate: 1-Chlorooctane	96.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Received by OCD 1/3/2021 Pelinquished by: 88 of 104
Et jo Et abed

Page 88 of Et jo Et abed

Chain of Custody Record HDDD' Comments: Receiving Laboratory: nvoice to: county, state) roject Name: Client Name: roject Location ONLY LAB# ᆏ Burn 0 B 6 C SOUTH EAST EAST NORTH ZORTI Bottom Heic Bottom WEST WEST SOUTH Hole EOG EOG - Todd Wells Cardinal Lea Co, NM Klondike Reuse Pit SIDEWALL SIDEWALL SIDEWALL SIDEWALL SIDEWALL SIDEWALL SIDEWALL #2 SIDEWALL Tetra Tech, Inc. F SAMPLE IDENTIFICATION 5 3/11/2020 BEB BEB Date: Date: Time: lime: 1545 ORIGINAL COPY 3/11/20 Received by: 3/11/20 3/11/20 3/11/20 3/11/20 Sampler Signature: Project #: 3 11 20 3/11/20 3/11/20 3 11 26 DATE SAMPLING TIME WATER Mike Carmona MATRIX X × × X × X X X SOIL Conner Moehring 212C-MD-01978 901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: Date: HCL PRESERVATIVE METHOD HNO₃ ICE Time: Time: X X None # CONTAINERS Z 7 2 2 2 7 2 5 2 2 FILTERED (Y/N) (Circle) HAND DELIVERED, FEDEX UPS Sample Temperature X X X X X BTEX 8021B BTEX 8260B ONLY TPH TX1005 (Ext to C35) × X X X X TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg REMARKS: TCLP Volatiles **ANALYSIS REQUEST** X RUSH: Same Day Rush Charges Authorized Special Report Limits or TRRP Report TCLP Semi Volatiles RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 I racking #: NORM PLM (Asbestos) Page 24 hr 48 hr 72 hr X X X X × X Chloride Chloride TDS Sulfate General Water Chemistry (see attached list) Anion/Cation Balance 9 Hold Released to Imaging: 7/30/2021 8:01:10 AM

Analytical Report 655684

for Tetra Tech- Midland

Project Manager: Mike Carmona Klondike Reuse Pit 212C-MD-01978 16-MAR-20

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

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



16-MAR-20

Project Manager: Mike Carmona Tetra Tech- Midland 901 West Wall ST Midland, TX 79701

Reference: XENCO Report No(s): 655684

Klondike Reuse Pit

Project Address: Lea Co, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 655684. 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. 655684 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Vramer

Project Manager

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 655684

Tetra Tech- Midland, Midland, TX

Klondike Reuse Pit

Sample IdMatrixDate CollectedSample DepthLab Sample IdSouth 1 SidewallS03-13-20 00:00655684-001

CASE NARRATIVE

16-MAR-20

Client Name: Tetra Tech- Midland Project Name: Klondike Reuse Pit

Project ID: 212C-MD-01978

Report Date: Work Order Number(s): 655684 Date Received: 03/13/2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3119634 BTEX by EPA 8021B

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

Received by OCD: 5/3/2021 1:57:15 PM XENCO LABORATORIES

Certificate of Analysis Summary 655684

Tetra Tech- Midland, Midland, TX Project Name: Klondike Reuse Pit

Date Received in Lab: Fri Mar-13-20 02:55 pm

Report Date: 16-MAR-20 **Project Manager:** Jessica Kramer

Project Id: 212C-MD-01978 Contact: Mike Carmona Project Location: Lea Co, NM

	Lab Id:	655684-001			
Analysis Requested	Field Id:	South 1 Sidewall			
Anaiysis Requesieu	Depth:				
	Matrix:	SOIL			
	Sampled:	Mar-13-20 00:00			
BTEX by EPA 8021B	Extracted:	Mar-13-20 18:00			
	Analyzed:	Mar-14-20 01:05			
	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			
Inorganic Anions by EPA 300/300.1	Extracted:	Mar-13-20 16:40			
	Analyzed:	Mar-13-20 17:10			
	Units/RL:	mg/kg RL			
Chloride		<9.98 9.98			
TPH By SW8015 Mod	Extracted:	Mar-13-20 17:30			
	Analyzed:	Mar-13-20 17:43			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)	1	<50.0 50.0			
Diesel Range Organics (DRO)		40.1 50.0			
Motor Oil Range Hydrocarbons (MRO)		51.3 50.0			
Total TPH		91.4 50.0			

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

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

Jessica Mamer

Jessica Kramer Project Manager



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.

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

^{**} Surrogate recovered outside laboratory control limit.



Form 2 - Surrogate Recoveries

Project Name: Klondike Reuse Pit

Work Orders: 655684,

Project ID: 212C-MD-01978

Lab Batch #: 3119703 Matrix: Soil **Sample:** 655684-001 / SMP Batch:

Units:	mg/kg	Date Analyzed: 03/13/20 17:43	SU	RROGATE RE	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane	-	90.1	100	90	70-135	
o-Terpheny	1		49.5	50.0	99	70-135	

Lab Batch #: 3119634 Sample: 655684-001 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 03/14/20 01:05 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0325 0.0300 108 70-130 4-Bromofluorobenzene 0.0290 0.0300 97 70-130

Lab Batch #: 3119703 Sample: 7698918-1-BLK / BLK Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 03/13/20 15:05 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.9	100	93	70-135	
o-Terphenyl	48.3	50.0	97	70-135	

Sample: 7698870-1-BLK / BLK **Lab Batch #:** 3119634 Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 03/13/20 23:02	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluor	obenzene	Analytes	0.0325	0.0300	108	70-130	
4-Bromofluorobenzene			0.0281	0.0300	94	70-130	

Lab Batch #: 3119703 **Sample:** 7698918-1-BKS / BKS Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 03/13/20 14:25	SU	RROGATE RE	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		115	100	115	70-135	
o-Terpheny	1		53.5	50.0	107	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Batch:

Project Name: Klondike Reuse Pit

Work Orders: 655684,

Sample: 7698870-1-BKS / BKS

Project ID: 212C-MD-01978

Lab Batch #: 3119634

Matrix: Solid

Units:	ng/kg	Date Analyzed: 03/13/20 23:23	SURROGATE RECOVERY STUDY							
	ВТЕХ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]					
1,4-Difluorobenz	zene		0.0323	0.0300	108	70-130				
4-Bromofluorobenzene		0.0286	0.0300	95	70-130					

Lab Batch #: 3119703 **Sample:** 7698918-1-BSD / BSD Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 03/13/20 14:45 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 105 100 105 70-135 o-Terphenyl 50.0 53.1 106 70-135

Lab Batch #: 3119634 Sample: 7698870-1-BSD / BSD Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 03/13/20 23:43 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0326	0.0300	109	70-130	
4-Bromofluorobenzene	0.0276	0.0300	92	70-130	

Lab Batch #: 3119703 **Sample:** 655684-001 S / MS Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 03/13/20 18:03	SU	RROGATE RI	ECOVERY S	STUDY	
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	ctane		103	100	103	70-135	
o-Terpheny	yl		49.7	50.0	99	70-135	

Lab Batch #: 3119634 **Sample:** 655684-001 S / MS Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 03/14/20 00:03	SU	RROGATE RE	ECOVERY S	STUDY	
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluoro	benzene		0.0323	0.0300	108	70-130	
4-Bromofluorobenzene		0.0274	0.0300	91	70-130		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

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

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries

Project Name: Klondike Reuse Pit

Work Orders: 655684,

Project ID: 212C-MD-01978

Lab Batch #: 3119703 Batch: 1 Matrix: Soil **Sample:** 655684-001 SD / MSD

Units:	mg/kg	Date Analyzed: 03/13/20 18:23	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chloroocta	ane		105	100	105	70-135			
o-Terphenyl			49.6	50.0	99	70-135			

Lab Batch #: 3119634 **Sample:** 655684-001 SD / MSD Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
BTEX by	EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Ana	alytes			[D]				
1,4-Difluorobenzene		0.0326	0.0300	109	70-130			
4-Bromofluorobenzene	0.0285	0.0300	95	70-130				

Surrogate Recovery [D] = 100 * A / B

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

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



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Project Name: Klondike Reuse Pit

Work Order #: 655684 Project ID: 212C-MD-01978

Analyst: MAB Date Prepared: 03/13/2020 Date Analyzed: 03/13/2020

 Lab Batch ID: 3119634
 Sample: 7698870-1-BKS
 Batch #: 1
 Matrix: Solid

Units: mg/	/kg		BLAN	K /BLANK S	SPIKE / H	BLANK S	SPIKE DUPI	LICATE RECO	VERY STUI	ΟY	
ВТ	TEX by EPA 8021B	Blank	Spike	Blank	Blank	Spike	Blank	Blk. Spk	Control	Control	

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.109	109	0.100	0.107	107	2	70-130	35	
Toluene	< 0.00200	0.100	0.105	105	0.100	0.102	102	3	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.0998	100	0.100	0.0963	96	4	71-129	35	
m,p-Xylenes	< 0.00400	0.200	0.206	103	0.200	0.199	100	3	70-135	35	
o-Xylene	< 0.00200	0.100	0.104	104	0.100	0.100	100	4	71-133	35	

Analyst: MAB Date Prepared: 03/13/2020 Date Analyzed: 03/13/2020

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	258	103	250	259	104	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



mg/kg

Units:

BS / BSD Recoveries

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY



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Project Name: Klondike Reuse Pit

Work Order #: 655684 Project ID: 212C-MD-01978

Analyst: DTH **Date Prepared:** 03/13/2020 **Date Analyzed:** 03/13/2020

 Lab Batch ID: 3119703
 Sample: 7698918-1-BKS
 Batch #: 1
 Matrix: Solid

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	982	98	1000	962	96	2	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1000	1060	106	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: Klondike Reuse Pit

Work Order #: 655684

Project ID: 212C-MD-01978

Lab Batch ID:

3119634

QC- Sample ID: 655684-001 S

Batch #:

Matrix: Soil

Date Analyzed:

03/14/2020

Date Prepared: 03/13/2020

Analyst: MAB

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	Tresure [2]	[G]	,,	, , ,	, , , , ,	
Benzene	< 0.00201	0.100	0.111	111	0.0994	0.0966	97	14	70-130	35	
Toluene	< 0.00201	0.100	0.102	102	0.0994	0.0892	90	13	70-130	35	
Ethylbenzene	< 0.00201	0.100	0.0981	98	0.0994	0.0865	87	13	71-129	35	
m,p-Xylenes	< 0.00402	0.201	0.201	100	0.199	0.177	89	13	70-135	35	
o-Xylene	< 0.00201	0.100	0.103	103	0.0994	0.0905	91	13	71-133	35	

Lab Batch ID:

3119636

QC- Sample ID: 655684-001 S

Batch #:

Matrix: Soil

Date Analyzed:

03/13/2020

Date Prepared: 03/13/2020

Analyst: MAB

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<9.98	200	212	106	200	218	109	2	90-110	20	
Chloride	< 9.98	200	212	100		218	109) 3	90-110	20	

Lab Batch ID:

3119636

QC- Sample ID: 655688-009 S

Batch #:

Matrix: Soil

Date Analyzed:

03/13/2020

Date Prepared: 03/13/2020

Analyst: MAB

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	37.5	198	253	109	198	262	113	3	90-110	20	X

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



Form 3 - MS / MSD Recoveries

Project Name: Klondike Reuse Pit

Work Order #: 655684

Project ID: 212C-MD-01978

Lab Batch ID:

3119703

QC- Sample ID: 655684-001 S

Batch #:

Matrix: Soil

Date Analyzed:

03/13/2020

Date Prepared: 03/13/2020

Analyst: DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample		RPD	Control Limits	Control Limits	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	849	85	1000	878	88	3	70-135	35	
Diesel Range Organics (DRO)	40.1	1000	936	85	1000	946	86	1	70-135	35	

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

Tetra Tech, Inc. Common Series Common Mike Carmona	Tetra Tech, Inc. Comparison Comparison	Figure 1 Standard Sta	LAB #	Project Location: (county, state) Invoice to: Receiving Laboratory: Comments:	Project Name:	Page Client Name:
Sampler Signature: Conner Moehring PRESERVATIVE METHOD RESERVATIVE METHOD RESERVATIVE METHOD RESERVATIVE R	Sampler Signature: Conner Moehring Sampler Signature: Contain Metals Aga Sas Ba Cd Cr Pb Se Hg The Signature Sampler Temperature Sampler Temperature Contain Metals Aga Sas Ba Cd Cr Pb Se Hg TCLP Metals Aga Sas Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles	Date: Time: Date: Time: Date: Time:		Lea Co EOG - Xenco		Tetra Tech,
901W Wall Street, Ste 100 Mike Carmona 212C-MD-01978 212C-MD-01978 212C-MD-01978 212C-MD-01978 Conner Moehring Conner Moehring NETHOD Date: Time: 3/13/20 HS 5 Date: Time:	None Pate: Time: Sample Temperature Pate	Received by:	MPLING	Project #: Sampler Signature:	Site Manager:	nii Mara
# CONTAINERS Z FILTERED (VAN)	# CONTAINERS	Time:	X SOIL HCL HNO ₃ X ICE PRESERV	212C-MD-01978 Conner Moehring	Mike Carmona	901W Wall Street, Ste 10 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
	Title Volatiles	5	# CONTAINERS Z FILTERED (Y/N) X BTEX 8021B BTEX 8 TPH TX1005 (Ext to C35	5)		5

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 03.13.2020 02.55.00 PM

Temperature Measuring device used: T-NM-007

Work Order #: 655684

Analyst:

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		2.5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	er/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquished	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/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 to	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headspa	ace?	N/A	

Must be completed fo	r after-hours deliver	y of samples	prior to placin	g in the refrigerator

\mathcal{O} . \mathcal{I} \mathcal{I}	

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 03.13.2020

Checklist reviewed by: Jessica Warner

Date: 03.16.2020

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 26664

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267 Midland, TX 79702	Action Number: 26664
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/30/2021