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Oil Conservation Division

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.

Clauma Damant Attackment Chashlists Each of the fill wine ?	terms annut he in child in the cleanar annuat					
<u>Closure Report Attachment Checklist</u>: Each of the following it	tems 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 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 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	Ations. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete					
OCD Only						
Received by: Jocelyn Harimon	Date: 11/08/2022					
	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: <u>1/25/2023</u>					
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced					



November 8, 2022

Bradford Billings Hydrologist/E.Spec.A District 2 Artesia 1220 South St. Francis Drive Oil Conservation Division Santa Fe, NM 87505

Re: Release Characterization and Closure Request ConocoPhillips Heritage Concho ETZ State Unit Battery Valve Release Unit Letter F, Section 16, Township 17 South, Range 30 East Eddy County, New Mexico Incident ID# NAB1821441378 2RP-4887

Mr. Billings,

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a Heritage Concho release and subsequent remedial actions taken at the ETZ State Unit Battery (Facility ID FAB1821441239). The release footprint is located in Public Land Survey System (PLSS) Unit Letter F, Section 16, Township 17 South, Range 30 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.836158°, -103.977973°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on July 24, 2018 while the battery was in the process of being dismantled due to the wells being plugged. The oil tanks were disconnected and moved, which included disconnecting the check valve to the Holly pipeline. The C-141 reports that when Holly placed the Houma Battery on line to sell oil, the check valve leaked causing the release. Approximately 5 barrels (bbls) of oil were released, of which 2 bbls were recovered. All fluids were contained inside of the facility firewalls. The NMOCD approved the initial C-141 on August 21, 2018 and subsequently assigned the release the Incident ID NAB1821441378 and the remediation permit (RP) number 2RP-4887. The initial C-141 form is included in Appendix A.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately ½ mile (800 meters) of the site. According to data from one (1) water well listed in the NMOSE database located 1,802 meters from the Site, the minimum depth to groundwater is 80 feet below ground surface (bgs). The site characterization data are presented in Appendix B.

Release Characterization and Closure Request November 8, 2022

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization, established depth to groundwater, and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Site RRALs		
10,000 mg/kg		
2,500 mg/kg		
1,000 mg/kg		
50 mg/kg		
10 mgkg		

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

SITE ASSESSMENT AND WORK PLAN

According to data provided in a Work Plan prepared by Concho on November 5, 2018, assessment sampling was conducted on September 5, 2018. Three (3) hand auger borings were installed to 5 feet bgs each in the release extent within the tank battery firewalls, and four (4) horizontal delineation samples were collected to the north, east, south, and west of the battery to 1 foot bgs, as shown on Figure 3. Following the receipt of sampling results, Concho proposed to excavate soils in the areas of AH-1 and AH-2 to a depth of 2 feet bgs and in the area of AH-3 (mistakenly identified in the Work Plan as AH-1) to a depth of 1 foot bgs. These areas correspond to soil intervals with Total TPH and BTEX concentrations above the Site RRALs. The proposed excavation consists of approximately 60 cubic yards of impacted soils. A copy of the Work Plan is included as Appendix C.

The Work Plan was originally submitted to the NMOCD and NMSLO via email on November 7, 2018. The Work Plan was approved by NMSLO on November 19, 2018 and resubmitted to the NMOCD on January 4, 2019. There is no available documentation of a response from the NMOCD. Copies of the regulatory correspondence are included in Appendix D.

VISUAL SITE INSPECTION SUMMARY

At the request of ConocoPhillips, Tetra Tech personnel conducted a records review and a visual Site inspection on September 21, 2022 at the release area evaluate to current conditions at the Site. Photographic documentation from the visual site inspection is included as Appendix E. Current site conditions are indicated in Figure 4. A list of observations made during the records review and visual Site inspection follow:

- According to the initial C-141 for the incident, the tank battery was in the process of being dismantled when the release occurred in August 2018.
- The most recently available historical aerial imagery (ESRI, 2020) shows that all onsite equipment has been removed, including the tank battery and spill containment.

Release Characterization and Closure Request November 8, 2022

- No surficial staining was noted at the point of release or the in the reported former release extent during the September 2022 visual Site inspection.
- Although the ETZ State Unit Battery (Facility ID FAB1821441239) is listed on NMOCD imaging as
 operated by COG Operating, Inc., it is understood that this facility was owned by Spur Energy, and
 Spur was believed responsible for the pad reclamation.
- The adjacent well on-pad, the ETZ C State #012 (30-015-20121) is indicated as plugged on the NMOCD Oil and Gas Map, and the Site has been released. The OGRID associated with the adjacent well is Mack Energy Corporation.
- Photographs from the former battery location indicate that the former pad has been reclaimed, and the area currently has established uniform vegetative cover with a life-form ratio of plus or minus fifty percent of pre-disturbance levels.

CONCLUSION

Based on the reclamation work performed at the Site and the recent visual Site inspection, ConocoPhillips requests closure for this release. The final C-141 form is enclosed in Attachment A.

Should you have any questions or comments regarding this report, please do not hesitate to contact me at 512-739-7874 or Christian at 512-338-2861.

Sincerely, **Tetra Tech, Inc.**

Samantha K. Abbott, P.G. Project Manager

Christian M. Llull, P.G. Program Manager

cc: Mr. Ike Tavarez, RMR – ConocoPhillips Mr. Charles Beauvais, BU – ConocoPhillips Release Characterization and Closure Request November 8, 2022

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Site Assessment (COG)

Figure 4 – Approximate Reclamation Extent

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Work Plan (November 5, 2018)

Appendix D – Regulatory Correspondence

Appendix E – Photographic Documentation

FIGURES



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APPENDIX A C-141 Forms

Received	by	OCD:	11/8/	2022	11:22	2:33 AM
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State of New Mexico Energy Minerals and Natural Resources

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

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Form C-141 Revised April 3, 2017

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 San	nta Fe,	NM 875	05					
FAB 821441239 Release Notifica	ation	and Co	rrective A	ction				
NAB 1821441378	C	DPERA 1	OR	\boxtimes	Initia	al Report		Final Repor
Name of Company: COG Operating LLC	Co	ontact:	Robert Mc	Neill				
Address: 600 West Illinois Avenue, Midland TX 79701	Τe	elephone N	lo. 432-683-7	443				
Facility Name: ETZ State Unit Battery	Fa	cility Typ	e: Tank Batter	ry		·		
Surface Owner: State Mineral Ov	wner:	State			API No	· - <u></u> · · · · ·		
	TION	OF REI	LEASE					
		outh Line	Feet from the	East/Wes	t Line		County Eddy	
Latitude 32.836158	375 Long	gitude -10	3.97797353 NA	AD83				
	-	-)F RELI						
Type of Release:		Volume of	Release:	V	olume F	Recovered:		
Oil			5 bbl.		2 bbl.			
Source of Release:			our of Occurrenc		Date and Hour of Discovery:			
Valve Failure Was Immediate Notice Given?		July If YES, To	24, 2018 2:00pm		July 24, 2018 2:00pm		<u>m</u>	
Yes No Not Req		11 125, 10	wnom?					
By Whom?		Date and H	our:					
Was a Watercourse Reached?		lf YES, Vo	lume Impacting t	the Waterco	ourse.			
\Box Yes \boxtimes No								
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*								
The ETZ State Unit Battery is in the process of being dismantled du								
included disconnecting the check value to the Holly pipeline. When Holly placed the Houma Battery on line to sell oil, the check value leaked causing the								
release. Describe Area Affected and Cleanup Action Taken.*			,,,					
Describe Area Affected and Cleanup Action Taken.*								
The release was on location. A vacuum truck was dispatched to rem	nove all f	reestanding	fluids. Concho v	will have th	e spill a	rea sampled	to delin	eate anv
possible impact from the release and we will present a remediation								

possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

		OIL CONSERVATION DIVISION
Signature:	Deann Greant	
Printed Name:	U DeAnn Grant	Approved by Environmental Specialist: Maria Truett
Title:	HSE Administrative Assistant	Approval Date: 8/2/18 Expiration Date: N/A
E-mail Address:	agrant@concho.com	Conditions of Approval:
Date: July 31, 2018	Phone: 432-253-4513	See attached Attached Attached

* Attach Additional Sheets If Necessary

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Oil Conservation Division

	Page 13 of 10
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

Received by OCD: 11/8/2022 11 Form C-141 Page 4	22:33 AM State of New Mexico Oil Conservation Division		Incident ID District RP Facility ID Application ID	Page 14 of 101
regulations all operators are requir public health or the environment. failed to adequately investigate an	on given above is true and complete to the best red to report and/or file certain release notifica The acceptance of a C-141 report by the OCI d remediate contamination that pose a threat to 141 report does not relieve the operator of res	ations and perform co D does not relieve the to groundwater, surfa	prective actions for rele operator of liability sho ce water, human health	ases which may endanger ould their operations have or the environment. In
Printed Nam~		itle:		
Signature:_/47	D	Date:		
email:	T	elephone:		
OCD Only				
Received by: <u>Jocelyn I</u>	Harimon	Date: 11/	08/2022	

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
Laboratory analyses of final sampling (Note: appropriate ODC	Laboratory analyses of final sampling (Note: appropriate ODC 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 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 regula restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the C Printed Name:	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.			
Signature:				
email:	Telephone:			
OCD Only				
Received by: Jocelyn Harimon	Date: 11/08/2022			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date:			
Printed Name:	Title:			

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APPENDIX B Site Characterization Data

OCD Waterbodies Map



10/26/2022, 8:48:06 AM



Esri, HERE, Garmin, GeoTechnologies, Inc., Maxar, NM OSE

OCD Karst Potential Map



10/26/2022, 8:51:20 AM

Karst Occurrence Potential





BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, Earthstar Geographics

OCD USGS Groundwater



10/26/2022, 8:53:28 AM

USGS Historical GW Wells





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(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)	· ·	are 1=NW 2=NE 3	,	83 UTM in met	ers)	(In feet)
POD Number	POD Sub- Code basin Cou	Q Q Q nty 64 16 4		x	Y		n Depth Water I Water Column
RA 11914 POD1	RA E	242	20 17S 30E	594801	3632002 🌍	1802 8	5 80 5
					Averag	e Depth to Wate	r: 80 feet
						Minimum Depth	n: 80 feet
						Maximum Depth	n: 80 feet
Booord County 1							

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 595663.36

Northing (Y): 3633584.79

Radius: 2000

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.

APPENDIX C Work Plan (November 5, 2018)



November 5, 2018

Mike Bratcher and Maria Pruett Oil Conservation Division, District 2 811 S First St. Artesia, NM 88210

Ryan Mann New Mexico State Land Office 1001 S. Atkinson Roswell, NM 88230

Re: Work Plan ETZ State Tank Battery (7/24/18) RP#: 2RP-4887 GPS: 32.836158, -103.977973 Unit Letter F, Section 16, Township 17 South, Range 30 East Eddy County, New Mexico

Ms. Pruett/ Mr. Ryan,

COG Operating, LLC (COG) is pleased to submit the following work plan in response to a release that occurred at the ETZ State Tank Battery located in Unit Letter F, Section 16, Township 17 South and Range 30 East in Eddy County, New Mexico.

BACKGROUND

The release was discovered on August 18, 2018 and a C-141 initial report was submitted and approved by the New Mexico Oil Conservation Division (NMOCD). The initial C-141 is shown in Appendix A. The ETZ State Unit Battery was in the process of being dismantled due to the wells being plugged. The oil tanks were disconnected and moved, which included disconnecting the check valve to the Holly pipeline. When Holly placed the Houma Battery on line to sell oil, the check valve leaked causing the release. Approximately five (5) barrels of oil were released and recovered two (2) barrels of oil. All of the fluids were contained inside the facility firewalls.

GROUNDWATER AND REGULATORY FRAMEWORK

According to the New Mexico Office of the State Engineer (NMOSE), reported a water well located in Section 20 with groundwater depth of 80 feet below surface. The Chevron Trend Map show a depth to water >100 feet. The water well information is shown in Appendix B.

One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701 | P 432.683.7443 | F 432.683.7441

A risk based evaluation and site determinations were perform in accordance to the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). According to the site characterization evaluation, no other receptors (water wells, playas, karst, water course, lake beds or ordinance boundaries) were located within each specific boundaries or distance from the site. The groundwater data and the site characterization evaluation data is summarized in Appendix B. The delineation and closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft.)
None Encountered	50-100 feet

Delineation and Closure Criteria:

Remedial Action Levels (RALs)				
Chlorides	10,000 mg/kg			
TPH (GRO and DRO and MRO)	2,500 mg/kg			
TPH (GRO and DRO)	1,000 mg/kg			
Benzene	10 mg/kg			
Total BTEX	50 mg/kg			

PROPOSED WORK PLAN

- The areas of AH-1 and AH-2 will be excavated to a depth of 2.0 below surface to remove the impacted soil above the RALs.
- Auger hole (AH-1) will be excavated to a depth of approximately 1.0' below surface.
- All of the excavated material will be hauled to an NMOCD approved disposal facility.
- The excavation will be backfilled with clean backfilled material.

SAMPLING PLAN

Once the excavation is complete, soil confirmation samples will be collected from the excavated areas. To collect representative samples, composite samples (5-point composite) will be collected every 200 square feet for the final confirmation sampling for the constituents of concern. Discrete soil samples will be collected from the excavation if any "hot spots" are encountered during the excavation.

REMEDIATION TIMEFRAME AND ESTIMATED VOLUME

The remediation will be performed 90 days after the work plan has been approved. Approximately 60 cubic yards of impacted soil will be excavated from the impacted area.

SITE RECLAMATION AND RESTORATION

All of the impacted soil remained on the pad and no reclamation activities will be required at the site.

Should you have any questions or concerns on the proposed remediation activities, please do not hesitate to contact me.

Sincerely, Concho Operating, LLC

My The

Ike Tavarez, P. G. Senior HSE Supervisor itavarez@concho.com

CC:

Figures

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Tables

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Table 1

COG Operating LLC.

ETZ State Tank Battery

Eddy County, New Mexico

		Soil Status		TPH (mg/kg)					Total BTEX				
Sample ID	Sample ID Sample Date		Removed	GRO	DRO	MRO	Total	GRO	DRO	Total	Benzene (mg/kg)	(mg/kg)	Chloride (mg/kg)
Average Depth to Groundw	verage Depth to Groundwater (ft) 50 -100'												
NMOCD RRAL Limits (ma	g/kg)			-	-	-	2,500	-	-	1,000	10	50	10,000
AH-1 (0-1')	9/5/2018	Х		1520	4140	<74.8	5660	1520	4140	5,660	1.96	86.8	<5.01
AH-1 (1-1.5')	9/5/2018	Х		2460	3780	<74.7	6240	2460	3780	6,240	27.2	436	<4.97
AH-1 (2-2.5')	9/5/2018	Х		73.2	149	42.4	265	73.2	149	222	0.0021	1.04	<4.99
AH-1 (3-3.5')	9/5/2018	Х		-	-	-	-	-	-	-	-		<5.0
AH-1 (4-4.5')	9/5/2018	Х											<5.0
AH-2 (0-1')	9/5/2018	X		1910	5240	<74.8	7150	1910	5240	7,150	2.57	241	10.7
AH-2 (1-1.5')	9/5/2018	Х		1780	3240	<74.9	5020	1780	3240	5,020	1.95	253	<4.97
AH-2 (2-2.5')	9/5/2018	Х		<15.0	157	16.9	174	<15.0	157	157	< 0.001	< 0.001	<5.01
AH-2 (3-3.5')	9/5/2018	Х		-	-	-	-	-	-	-	-		<5.0
AH-2 (4-4.5')	9/5/2018	Х		-	-	-	-	-	-	-	-		<5.0
AH-3 (0-1')	9/5/2018	X		2270	5700	<75.0	7970	2270	5700	7,970	0.222	76.0	<4.95
AH-3 (1-1.5')	9/5/2018	Х		123	291	<14.9	414	123	291	414	< 0.100	3.16	12.1
AH-3 (2-2.5')	9/5/2018	Х		-	-	-	-	-	-	-	-	-	<4.96
AH-3 (3-3.5')	9/5/2018	Х		-	-	-	-	-	-	-	-	-	<4.95
AH-3 (4-4.45')	9/5/2018	Х		-	-	-	-	-	-	-	-	-	<4.96
North (0-1')	9/5/2018	X		<14.9	17.9	<14.9	17.9	<14.9	17.9	17.9	<0.00200	< 0.00200	223
South (0-1')	9/5/2018	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	< 0.00202	< 0.00202	1190
East (0-1')	9/5/2018	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	< 0.00199	< 0.00199	152
West (0-1')	9/5/2018	Х		<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<0.00202	< 0.00202	83.8

Proposed Excavation Depth Not Analyzed

(-)

Appendix A

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

		OPERATO	R	🛛 Initia	l Report	Final Report
Name of Company: COG Operating LLC		Contact:	Robert McNeill			
Address: 600 West Illinois Avenue, Midland	Telephone No.	432-683-7443				
Facility Name: ETZ State Unit Battery	Facility Type:	Tank Battery				
Surface Owner: State	Mineral Owner	: State		API No.		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	16	17S	30E					Eddy

Latitude 32.83615875 Longitude -103.97797353 NAD83

NATURE OF RELEASE

Type of Release:	0.1	Volume of Release:	Volume Re	
C (D)	Oil	5 bbl.		2 bbl.
Source of Release:	Valve Failure	Date and Hour of Occurrence: July 24, 2018 2:00pm		our of Discovery: uly 24, 2018 2:00pm
Was Immediate Notice		If YES, To Whom?	5	ury 24, 2018 2.00pm
was minediate rotice	\square Yes \square No \square Not Required			
Dec W/h area 9		Date and Hour:		
By Whom? Was a Watercourse Rea	ahad	If YES, Volume Impacting the Wa	tanaquinca	
was a watercourse Rea	\square Yes \boxtimes No	If TES, Volume impacting the wa	liercourse.	
If a Watercourse was In	pacted, Describe Fully.*			
Describe Cause of Prob.	lem and Remedial Action Taken.*			
The FT7 State Unit Bat	tery is in the process of being dismantled due to t	he wells being plugged. The oil tanks	were disconne	octed and moved which
	the check valve to the Holly pipeline. When Holl			
release.			, are e	
Describe Area Affected	and Cleanup Action Taken.*			
	•			
	tion. A vacuum truck was dispatched to remove a			
	e release and we will present a remediation work			
	information given above is true and complete to t			
	are required to report and/or file certain release r			
	ronment. The acceptance of a C-141 report by the have failed to adequately investigate and remedia			
	addition, NMOCD acceptance of a C-141 report of			
federal, state, or local la		loes not reneve the operator of respon	sionity for cor	ipitalee with any other
,,		OIL CONSER	VATION I	DIVISION
		<u>OIL CONSER</u>		
Signature:	Delinn Oreant			
	0.	Approved by Environmental Speciali	st:	
Printed Name:	DeAnn Grant			
Title:	HSE Administrative Assistant	Approval Date:	Expiration Da	ate:
			r	
E-mail Address:	agrant@concho.com	Conditions of Approval:		Attached
				Attached
Date: July 31 2018	Phone: 432-253-4513			

* Attach Additional Sheets If Necessary

Received by OCD: 11/8/2022 11:22:33 AM Form C-141 State of New Mexico

Oil Conservation Division

District RP 2RP 4887 Facility ID Application ID

Incident ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100 (ft bgs)</u>
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
515 Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🛛 Yes 🗌 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data

Page 3

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 11/8/2022 Form C-141	11:22:33 AM State of New Mexico		Incident ID	Page 33 of 101
Page 4	Oil Conservation Division		District RP	2RP 4887
			Facility ID	
			Application ID	
regulations all operators are required public health or the environme failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: <u>Ike Tavarez</u>	475	tifications and perform co OCD does not relieve the reat to groundwater, surfac f responsibility for compl Title: <u>Senior HSE Sur</u>	rrective actions for rele operator of liability sho ce water, human health iance with any other feo pervisor	ases which may endanger ould their operations have or the environment. In
OCD Only				
Received by:		Date:		

Received by OCD: 11/8/2022 11:22:33 AM Form C-141 State of New Mexico

Page 5

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	2RP 4887
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Title: Senior HSE Supervisor Printed Name: Ike Tavarez Signature: _____ 04 725 _____ Date: ____10/24/18_____ Telephone: 432-683-7443_____ email: <u>itavarez@concho.com</u>_____ OCD Only _ Date: __ Received by: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 6

Incident ID	
District RP	2RP 4887
Facility ID	
Application ID	

Closure

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

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

 A scaled site and sampling diagram as described in 19.15.29.11 NMAC

 Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

 Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 Description of remediation activities

human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

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

•

Appendix B

Released to Imaging: 1/25/2023 3:37:13 PM
COG Operating LLC

ETZ State Tank Battery Eddy County, New Mexico 32.836158 -103.977973 Legend High Low Medium Site Location

Site Location



1 mi

Received by OCD: 11/8/2022 11:22:33 AM



.

Google Earth

82

New Mexico NFHL Data







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





National Water Information System: Web Interface

USGS Water Resources

ata Category ographic Area ✓ United States Groundwater \checkmark GO

USGS Home Contact USGS Search USGS

Click to hideNews Bulletins

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

• Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325216103575701

Minimum number of levels = 1 Save file of selected sites to local disk for future upload

USGS 325216103575701 16S.30E.33.42443

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico Hydrologic Unit Code --

Latitude 32°52'16", Longitude 103°57'57" NAD27

Land-surface elevation 3,729 feet above NAVD88

The depth of the well is 385 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

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



- Period of approved data

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 <u>Help</u> Data Tips Explanation of terms



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)	(quarte			IE 3=SW largest)	,	3 UTM in meters)		(In feet)
POD Number	POD Sub- Code basin Co	-	2 Q Q 4 16 4	Tws	Rna	х	Y	-	Depth Water	Water Column
RA 11914 POD1			2 4 2		Ŭ	594801	3632002 🌍	85	80	5
							Average Depth to	Water:	80 fe	eet
							Minimum	Depth:	80 fe	eet
							Maximum	Depth:	80 fe	eet
Record Count: 1				 						

Record Count: 1

PLSS Search:

Section(s): 20

Township: 17S

Range: 30E

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.

•

Appendix C

Released to Imaging: 1/25/2023 3:37:13 PM





Project Id:

Contact:

Project Location: Eddy County, New Mexico

Ike Tavarez



COG Operating LLC, Artesia, NM

Project Name: ETZ State Tank Battery (7-24-18)



Date Received in Lab:Thu Sep-06-18 09:43 amReport Date:29-OCT-18Project Manager:Jessica Kramer

	Lab Id:	598150-0	001	598150-0	02	598150-0	003	598150-0	04	598150-0	05	598150-0	006
Analysis Requested	Field Id:	AH-1 (0-	-1')	AH-1 (1-1	.5')	AH-1 (2-2	2.5')	AH-1 (3-3	5.5')	AH-1 (4-4	.5')	AH-2 (0-	-1')
Analysis Kequesieu	Depth:												
	Matrix:	SOIL	,	SOIL		SOIL	.	SOIL		SOIL		SOIL	
	Sampled:	Sep-05-18	00:00	Sep-05-18 (00:00	Sep-05-18	00:00	Sep-05-18 (00:00	Sep-05-18 (00:00	Sep-05-18 (00:00
BTEX by EPA 8021B	Extracted:	Sep-09-18	10:00	Sep-10-18 1	6:00	Sep-12-18	15:00					Sep-10-18	16:00
	Analyzed:	Sep-10-18	05:35	Sep-11-18 (02:30	Sep-13-18	09:10					Sep-11-18 (02:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL					mg/kg	RL
Benzene		1.96	0.198	27.2	2.01	0.00214	0.00200					2.57	0.498
Toluene		21.5	0.198	158	2.01	0.133	0.00200					59.2	0.498
Ethylbenzene		21.6	0.198	116	2.01	0.332	0.00200					76.3	0.498
m,p-Xylenes		25.4	0.397	98.4	4.02	0.376	0.00401					70.3	0.996
o-Xylene		16.3	0.198	36.6	2.01	0.197	0.00200					32.3	0.498
Total Xylenes		41.7	0.198	135	2.01	0.573	0.00200					103	0.498
Total BTEX		86.8	0.198	436	2.01	1.04	0.00200					241	0.498
Chloride by EPA 300	Extracted:	Sep-06-18	15:00	Sep-06-18 1	5:00	Sep-06-18	15:00	Sep-06-18 1	5:00	Sep-06-18 1	5:00	Sep-06-18	15:00
	Analyzed:	Sep-06-18	19:08	Sep-06-18 1	9:13	Sep-06-18	19:19	Sep-06-18 1	9:24	Sep-06-18 1	9:29	Sep-06-18	19:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.01	5.01	<4.97	4.97	<4.99	4.99	< 5.00	5.00	< 5.00	5.00	10.7	4.97
TPH By SW8015 Mod	Extracted:	Sep-06-18	11:00	Sep-06-18 1	1:00	Sep-11-18	12:00					Sep-06-18	11:00
	Analyzed:	Sep-06-18	23:32	Sep-06-18 2	23:52	Sep-11-18	21:10					Sep-07-18 (00:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL					mg/kg	RL
Gasoline Range Hydrocarbons		1520	74.8	2460	74.7	73.2	15.0					1910	74.8
Diesel Range Organics		4140	74.8	3780	74.7	149	15.0					5240	74.8
Motor Oil Range Hydrocarbons (MRO)		<74.8	74.8	<74.7	74.7	42.4	15.0					<74.8	74.8
Total TPH		5660	74.8	6240	74.7	265	15.0					7150	74.8

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

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Huns Boah

Kelsey Brooks Project Manager





Project Id:

Contact:

Ike Tavarez **Project Location:** Eddy County, New Mexico



COG Operating LLC, Artesia, NM

Project Name: ETZ State Tank Battery (7-24-18)



Date Received in Lab: Thu Sep-06-18 09:43 am Report Date: 29-OCT-18 Project Manager: Jessica Kramer

	Lab Id:	598150-0	007	598150-0	000	598150-0	00	598150-0	10	598150-0	11	598150-0	12
Analysis Requested	Field Id:	AH-2 (1-	1.5')	AH-2 (2-2	2.5')	AH-2 (3-3	.5')	AH-2 (4-4	.5')	AH-3 (0-	-1')	AH-3 (1-1	1.5')
Thulysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-05-18	00:00	Sep-05-18 (00:00	Sep-05-18 0	00:00	Sep-05-18 0	0:00	Sep-05-18	00:00	Sep-05-18 (00:00
BTEX by EPA 8021B	Extracted:	Sep-10-18	16:00	Sep-12-18	15:00					Sep-09-18	10:00	Sep-07-18 1	17:00
	Analyzed:	Sep-11-18	03:10	Sep-13-18 (08:49					Sep-10-18 (01:53	Sep-08-18 (02:13
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Benzene		1.95	0.499	< 0.00199	0.00199					0.222	0.199	< 0.100	0.100
Toluene		56.6	0.499	< 0.00199	0.00199					1.33	0.199	0.118	0.100
Ethylbenzene		80.5	0.499	< 0.00199	0.00199					4.72	0.199	0.177	0.100
m,p-Xylenes		73.4	0.998	< 0.00398	0.00398					38.0	0.398	1.82	0.201
o-Xylene		41.0	0.499	< 0.00199	0.00199					31.7	0.199	1.04	0.100
Total Xylenes		114	0.499	< 0.00199	0.00199					69.7	0.199	2.86	0.100
Total BTEX		253	0.499	< 0.00199	0.00199					76.0	0.199	3.16	0.100
Chloride by EPA 300	Extracted:	Sep-06-18	15:00	Sep-06-18	15:00	Sep-06-18 1	5:00	Sep-06-18 1	5:00	Sep-06-18	15:00	Sep-06-18 1	15:00
	Analyzed:	Sep-06-18	19:56	Sep-06-18 2	20:12	Sep-06-18 20:17 Sep-06-18 20:2		0:22	Sep-06-18 20:27		Sep-06-18 20:33		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.95	4.95	<4.97	4.97	<5.01	5.01	< 5.00	5.00	<4.95	4.95	12.1	4.96
TPH By SW8015 Mod	Extracted:	Sep-06-18	11:00	Sep-11-18	12:00					Sep-06-18	11:00	Sep-06-18 1	11:00
	Analyzed:	Sep-07-18	00:32	Sep-11-18	16:30					Sep-07-18	00:51	Sep-07-18 (01:11
	Units/RL:	mg/kg	RL	mg/kg	RL					mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons		1780	74.9	<15.0	15.0					2270	75.0	123	14.9
Diesel Range Organics		3240	74.9	157	15.0					5700	75.0	291	14.9
Motor Oil Range Hydrocarbons (MRO)		<74.9	74.9	16.9	15.0					<75.0	75.0	<14.9	14.9
Total TPH		5020	74.9	174	15.0					7970	75.0	414	14.9

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Huns Boah

Kelsey Brooks Project Manager

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Project Id: Contact:

Project Location:



Ike Tavarez

Eddy County, New Mexico

Certificate of Analysis Summary 598150

COG Operating LLC, Artesia, NM

Project Name: ETZ State Tank Battery (7-24-18)



Date Received in Lab: Thu Sep-06-18 09:43 am Report Date: 29-OCT-18 Project Manager: Jessica Kramer

Lab Id: 598150-013 598150-014 598150-015 598150-016 598150-017 598150-018 Field Id: AH-3 (2-2.5') AH-3 (3-3.5') AH-3 (4-4.45') North (0-1') South (0-1') East (0-1') Analysis Requested Depth: Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sep-05-18 00:00 Sep-05-18 00:00 Sep-05-18 00:00 Sep-05-18 00:00 Sep-05-18 00:00 Sampled: Sep-05-18 00:00 BTEX by EPA 8021B Sep-07-18 17:00 Sep-09-18 10:00 Sep-07-18 17:00 Extracted: Analyzed: Sep-08-18 01:52 Sep-10-18 00:32 Sep-08-18 04:00 RL RL RL Units/RL: mg/kg mg/kg mg/kg < 0.00200 0.00200 < 0.00202 0.00202 < 0.00199 0.00199 Benzene 0.00202 Toluene < 0.00200 0.00200 < 0.00202 < 0.00199 0.00199 < 0.00200 0.00200 < 0.00202 0.00202 < 0.00199 0.00199 Ethylbenzene 0.00404 0.00398 < 0.00401 0.00401 < 0.00404 < 0.00398 m,p-Xylenes o-Xylene < 0.00200 0.00200 < 0.00202 0.00202 < 0.00199 0.00199 0.00202 < 0.00200 0.00200 < 0.00202 < 0.00199 0.00199 Total Xylenes Total BTEX < 0.00200 0.00200 < 0.00202 0.00202 < 0.00199 0.00199 Chloride by EPA 300 Extracted: Sep-06-18 15:00 Sep-06-18 15:00 Sep-06-18 17:00 Sep-06-18 17:00 Sep-06-18 17:00 Sep-06-18 17:00 Analyzed: Sep-06-18 20:38 Sep-06-18 20:43 Sep-06-18 21:31 Sep-06-18 21:36 Sep-06-18 21:42 Sep-06-18 21:47 Units/RL. mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL Chloride <4.96 4.96 <4.95 4.95 <4.96 4.96 223 4.95 1190 24.8 152 4.95 TPH By SW8015 Mod Sep-06-18 11:00 Extracted: Sep-06-18 11:00 Sep-06-18 11:00 Analyzed: Sep-07-18 01:31 Sep-07-18 01:51 Sep-07-18 02:11 Units/RL: mg/kg RL mg/kg RL mg/kg RL Gasoline Range Hydrocarbons <14.9 14.9 <15.0 15.0 <15.0 15.0 14.9 15.0 **Diesel Range Organics** 17.9 <15.0 < 15.015.0 Motor Oil Range Hydrocarbons (MRO) < 14.914.9 <15.0 15.0 < 15.015.0 Total TPH 17.9 14.9 <15.0 15.0 < 15.015.0

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Kurshoah

Kelsey Brooks Project Manager

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Project Id:

Contact:

Ike Tavarez **Project Location:** Eddy County, New Mexico Certificate of Analysis Summary 598150

COG Operating LLC, Artesia, NM Project Name: ETZ State Tank Battery (7-24-18)



Date Received in Lab: Thu Sep-06-18 09:43 am Report Date: 29-OCT-18 Project Manager: Jessica Kramer

Lah Id.	598150-019					
Field Id:	West (0-1')					
Depth:						
Matrix:	SOIL					
Sampled:	Sep-05-18 00:00					
Extracted:	Sep-07-18 17:00	í.				
Analyzed:	Sep-08-18 04:21					
Units/RL:	mg/kg RL					
	<0.00202 0.00202					
	<0.00202 0.00202					
	<0.00202 0.00202					
	<0.00403 0.00403					
	<0.00202 0.00202					
	<0.00202 0.00202					
	<0.00202 0.00202					
Extracted:	Sep-06-18 17:00					
Analyzed:	Sep-06-18 22:03					
Units/RL:	mg/kg RL					
	83.8 4.95					
Extracted:	Sep-06-18 11:00					
Analyzed:	Sep-07-18 02:31					
Units/RL:	mg/kg RL					
	<15.0 15.0					
	<15.0 15.0					
	<15.0 15.0					
	<15.0 15.0					
	Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id: West (0-1') Depth: SOIL Matrix: SOIL Sampled: Sep-05-18 U:00 Extracted: Sep-07-18 T:00 Analyzed: Sep-08-18 U:11 Units/RL: mg/kg RL Quits/RL: mg/kg RL Quits/RL: Mg/kg 0.00202 Quits/RL: Quits/RL Quits/RL Sep-06-18 U:00202 Quits/RL Malyzed: Sep-06-18 U:00202 Analyzed: Sep-06-18 U:01 Mission Mg/kg RL Mission Sep-07-18 U:01 Analyzed: Sep-07-18 U:01 Mission Mg/kg RL Units/RL: Mg/kg RL Mission Sep-07-18 U:01 Analyzed: Sep-07-18 U:01 Mission Mg/kg RL Mission Sep-07-18 U:01 Mission Mg/kg RL Mission Mission Mission Mi	Field Id: West (0-1') Depth: Matrix: SOIL Sampled: Sep-05-18 00:00 Extracted: Sep-07-18 17:00 Analyzed: Sep-08-18 04:21 Units/RL: mg/kg RL Source Outits/RL: mg/kg RL Source Matrix: Sep-06-18 17:00 Extracted: Sep-06-18 17:00 Analyzed: Sep-06-18 22:03 Mits/RL: mg/kg RL Extracted: Sep-06-18 11:00 Analyzed: Sep-07-18 02:31 Mits/RL: mg/kg RL Units/RL: mg/kg RL Mathy RL Mal	Field Id: West (0-1') Depth: · Matrix: SOIL Sampled: Sep-05-18 00:00 Extracted: Sep-07-18 17:00 Analyzed: Sep-08-18 04:21 Units/RL: mg/kg RL Sonologie · Analyzed: Sep-08-18 04:21 Units/RL: mg/kg RL Matrix: Sep-06-18 17:00 Analyzed: Sep-06-18 17:00 Analyzed: Sep-06-18 17:00 Analyzed: Sep-06-18 17:00 Analyzed: Sep-07-18 02:31 Units/RL: mg/kg RL Markis Ris	Field Id: West (0-1') Depth: · Matrix: SOIL Sampled: Sep-05-18 0::0 Extracted: Sep-07-18 17:0 Analyzed: Sep-08-18 0::21 Units/RL: mg/kg RL 0 · · 0 · · 0 · · · 0 · · · 0 · · · · 0 · · · · 0 · · · · · 0 · · · · · 0 · · · · · 10 · · · · · 0 · · · · · · 10 · · · · · · · 10 · · · · · · · · 2 · ·	Field Id: West (0-1) Image: September 1000 Image: September 1000 Samplet: Sep-05-18 00:00 Image: September 1000 Image: September 1000 Extractet: Sep-07-18 17:00 Image: September 1000 Image: September 1000 Mariz: Sep-07-18 17:00 Image: September 1000 Image: September 1000 Mariz: Sep-07-18 17:00 Image: September 1000 Image: September 1000 Mariz: Image: September 1000 Image: September 1000 Image: September 1000 Mariz: September 1000 Image: September 1000 Image: September 1000 Image: September 1000 Mariz: September 1100 Image: September 1100 Image: September 1100 Image: September 1100 Mariz: September 11100 Image: September 1100 Image: September 1100 Image: September 1100 Mariz: September 11100 Image: September 1100 Image: September 1100 Image: September 1100 Mariz: September 11100 Image: September 11100 Image: September 11100 Image: September 11100 Mariz: September 11100 Image: September 11100 Image: September 11100 Image: September 11100 Mariz: Septe

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 - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Boah

Kelsey Brooks Project Manager

Analytical Report 598150

for COG Operating LLC

Project Manager: Ike Tavarez

ETZ State Tank Battery (7-24-18)

29-OCT-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098)



29-OCT-18

Project Manager: **Ike Tavarez COG Operating LLC** 2407 Pecos Avenue Artesia, NM 88210

Reference: XENCO Report No(s): **598150 ETZ State Tank Battery (7-24-18)** Project Address: Eddy County, New Mexico

Ike Tavarez:

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) 598150. 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. 598150 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,

Huns hoah

Kelsey Brooks 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 Id

AH-1 (0-1')
AH-1 (1-1.5')
AH-1 (2-2.5')
AH-1 (3-3.5')
AH-1 (4-4.5')
AH-2 (0-1')
AH-2 (1-1.5')
AH-2 (2-2.5')
AH-2 (3-3.5')
AH-2 (4-4.5')
AH-3 (0-1')
AH-3 (1-1.5')
AH-3 (2-2.5')
AH-3 (3-3.5')
AH-3 (4-4.45')
North (0-1')
South (0-1')
East (0-1')
West (0-1')

Sample Cross Reference 598150



Matrix	Date Collected	Sample Depth	Lab Sample Id
S	09-05-18 00:00		598150-001
S	09-05-18 00:00		598150-002
S	09-05-18 00:00		598150-003
S	09-05-18 00:00		598150-004
S	09-05-18 00:00		598150-005
S	09-05-18 00:00		598150-006
S	09-05-18 00:00		598150-007
S	09-05-18 00:00		598150-008
S	09-05-18 00:00		598150-009
S	09-05-18 00:00		598150-010
S	09-05-18 00:00		598150-011
S	09-05-18 00:00		598150-012
S	09-05-18 00:00		598150-013
S	09-05-18 00:00		598150-014
S	09-05-18 00:00		598150-015
S	09-05-18 00:00		598150-016
S	09-05-18 00:00		598150-017
S	09-05-18 00:00		598150-018
S	09-05-18 00:00		598150-019



CASE NARRATIVE

Client Name: COG Operating LLC Project Name: ETZ State Tank Battery (7-24-18)

Project ID: Work Order Number(s): 598150 Report Date: 29-OCT-18 Date Received: 09/06/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3062552 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Dilution due to poor resolution of internal caused by matrix interference.

Batch: LBA-3062575 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 598150-001,598150-011.

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

Batch: LBA-3062716 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030. Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 598150-006,598150-002,598150-007.

Batch: LBA-3063031 BTEX by EPA 8021B Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data

confirmed by re-analysis.

Samples affected are: 598150-003.

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





COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	AH-1 (0-1') d: 598150-001		Matrix: Date Collec	Soil cted: 09.05.18 00.00	Date Received:09.06.18 09.43					
Analytical Me Tech: Analyst: Seq Number:	ethod: Chloride by El SCM SCM 3062375	PA 300	Date Prep:	09.06.18 15.00		Prep Method: E30 % Moisture: Basis: Wet	0P Weight			
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Chloride		16887-00-6	<5.01	5.01	mg/kg	09.06.18 19.08	U	1		
Analytical Me	ethod: TPH By SW80	015 Mod				Prep Method: TX	1005P			

ARM					9	6 Moisture:		
ARM		Date Pre	ep: 09.0	06.18 11.00	E	Basis: W	et Weight	
3062455								
	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Hydrocarbons	PHC610	1520	74.8		mg/kg	09.06.18 23.32		5
rganics	C10C28DRO	4140	74.8		mg/kg	09.06.18 23.32		5
Iydrocarbons (MRO)	PHCG2835	<74.8	74.8		mg/kg	09.06.18 23.32	U	5
	PHC635	5660	74.8		mg/kg	09.06.18 23.32		5
		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
ctane		111-85-3	120	%	70-135	09.06.18 23.32		
yl		84-15-1	126	%	70-135	09.06.18 23.32		
	ARM 3062455 Hydrocarbons rganics lydrocarbons (MRO)	ARM 3062455 Cas Number Hydrocarbons PHC610 rganics C10C28DRO lydrocarbons (MRO) PHCG2835 PHC635 extane	ARM Date Pres 3062455 Cas Number Result Hydrocarbons PHC610 1520 rganics C10C28DRO 4140 lydrocarbons (MRO) PHCG2835 <74.8	ARM 3062455 Date Prep: 09.0 Kesult Result RL Hydrocarbons PHC610 1520 74.8 rganics C10C28DRO 4140 74.8 lydrocarbons (MRO) PHC635 <74.8	ARM 3062455 Date Prep: 09.06.18 11.00 Kesult RL RL Hydrocarbons PHC610 1520 74.8 rganics C10C28DRO 4140 74.8 lydrocarbons (MRO) PHC635 <74.8	ARM Date Prep: 09.06.18 11.00 H 3062455 Cas Number Result RL Units Hydrocarbons PHC610 1520 74.8 mg/kg rganics C10C28DRO 4140 74.8 mg/kg lydrocarbons (MRO) PHC635 <74.8	ARM 3062455 Date Prep: 09.06.18 11.00 Basis: Wo Kesult RL Units Analysis Date Hydrocarbons PHC610 1520 74.8 mg/kg 09.06.18 23.32 rganics C10C28DRO 4140 74.8 mg/kg 09.06.18 23.32 lydrocarbons (MRO) PHC62835 <74.8 74.8 mg/kg 09.06.18 23.32 PHC635 5660 74.8 mg/kg 09.06.18 23.32 Value Kecovery Units Analysis Date Cas Number % Recovery Units Analysis Date tane 111-85-3 120 70-135 09.06.18 23.32	ARM 3062455 Date Prep: $09.06.18\ 11.00$ Basis: Wet Weight Kernel Cas Number Result RL Units Analysis Date Flag Hydrocarbons PHC610 1520 74.8 mg/kg $09.06.18\ 23.32$ rganics C10C28DRO 4140 74.8 mg/kg $09.06.18\ 23.32$ lydrocarbons (MRO) PHC62835 <74.8 74.8 mg/kg $09.06.18\ 23.32$ U PHC635 <74.8 74.8 mg/kg $09.06.18\ 23.32$ U P lydrocarbons (MRO) PHC62835 <74.8 74.8 mg/kg $09.06.18\ 23.32$ U ettane Cas Number $\frac{%}{Recovery}$ Units Analysis Date Flag ttane 111-85-3 120 % 70-135 $09.06.18\ 23.32$





Prep Method: SW5030B

Wet Weight

% Moisture:

Basis:

COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.09.18 10.00

Sample Id: AH-1 (0-1')	Matrix:	Soil	Date Received:09.06.18 09.43
Lab Sample Id: 598150-001	Date Collected	1:09.05.18 00.00	

Date Prep:

Analytical Method: BTEX by EPA 8021B

Tech:ALJAnalyst:ALJSeq Number:3062575

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.96	0.198		mg/kg	09.10.18 05.35		100
Toluene	108-88-3	21.5	0.198		mg/kg	09.10.18 05.35		100
Ethylbenzene	100-41-4	21.6	0.198		mg/kg	09.10.18 05.35		100
m,p-Xylenes	179601-23-1	25.4	0.397		mg/kg	09.10.18 05.35		100
o-Xylene	95-47-6	16.3	0.198		mg/kg	09.10.18 05.35		100
Total Xylenes	1330-20-7	41.7	0.198		mg/kg	09.10.18 05.35		100
Total BTEX		86.8	0.198		mg/kg	09.10.18 05.35		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	593	%	70-130	09.10.18 05.35	**	
1,4-Difluorobenzene		540-36-3	108	%	70-130	09.10.18 05.35		





COG Operating LLC, Artesia, NM

Sample Id: Lab Sample I	AH-1 (1-1.5') d: 598150-002		Matrix: Date Colle	Soil cted: 09.05.18 00.00		Date Received:09	06.18 09.4	3
Analytical Mo Tech: Analyst: Seq Number:	ethod: Chloride by EPA SCM SCM 3062375	<u>x</u> 300	Date Prep:	09.06.18 15.00		Prep Method: E3 % Moisture: Basis: We	00P et Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.97	4.97	mg/kg	09.06.18 19.13	U	1

Analytical Method: TPH By SW801	5 Mod				F	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 09.06	18 11.00	E	Basis: We	t Weight	
Seq Number: 3062455								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	2460	74.7		mg/kg	09.06.18 23.52		5
Diesel Range Organics	C10C28DRO	3780	74.7		mg/kg	09.06.18 23.52		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<74.7	74.7		mg/kg	09.06.18 23.52	U	5
Total TPH	PHC635	6240	74.7		mg/kg	09.06.18 23.52		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	09.06.18 23.52		
o-Terphenyl		84-15-1	104	%	70-135	09.06.18 23.52		





Prep Method: SW5030B

Wet Weight

% Moisture:

Basis:

COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.10.18 16.00

Sample Id: AH-1 (1-1.5')	Matrix:	Soil	Date Received:09.06.18 09.43			
Lab Sample Id: 598150-002	Date Collected: 09.05.18 00.00					

Date Prep:

Analytical Method: BTEX by EPA 8021B

Tech:ALJAnalyst:ALJSeq Number:3062716

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	27.2	2.01		mg/kg	09.11.18 02.30		1000
Toluene	108-88-3	158	2.01		mg/kg	09.11.18 02.30		1000
Ethylbenzene	100-41-4	116	2.01		mg/kg	09.11.18 02.30		1000
m,p-Xylenes	179601-23-1	98.4	4.02		mg/kg	09.11.18 02.30		1000
o-Xylene	95-47-6	36.6	2.01		mg/kg	09.11.18 02.30		1000
Total Xylenes	1330-20-7	135	2.01		mg/kg	09.11.18 02.30		1000
Total BTEX		436	2.01		mg/kg	09.11.18 02.30		1000
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	118	%	70-130	09.11.18 02.30		
4-Bromofluorobenzene		460-00-4	264	%	70-130	09.11.18 02.30	**	





COG Operating LLC, Artesia, NM

Sample Id: AH-1 (2-2.5') Lab Sample Id: 598150-003		Matrix: Date Collec	Soil eted: 09.05.18 00.00		Date Received:09	.06.18 09.43	3
Analytical Method:Chloride by ITech:SCMAnalyst:SCMSeq Number:3062375	EPA 300	Date Prep:	09.06.18 15.00		Prep Method: E3 % Moisture: Basis: We	00P et Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	09.06.18 19.19	U	1
Analytical Method: TPH By SW3 Tech: ARM Analyst: ARM Seq Number: 3062894	3015 Mod	Date Prep:	09.11.18 12.00		Prep Method: TX % Moisture: Basis: We	X1005P et Weight	
Parameter	Cas Number	Result	RI.	Unite	Analysis Data	Flag	Dil

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	73.2	15.0		mg/kg	09.11.18 21.10		1
Diesel Range Organics	C10C28DRO	149	15.0		mg/kg	09.11.18 21.10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	42.4	15.0		mg/kg	09.11.18 21.10		1
Total TPH	PHC635	265	15.0		mg/kg	09.11.18 21.10		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	09.11.18 21.10		
o-Terphenyl		84-15-1	99	%	70-135	09.11.18 21.10		





Wet Weight

Basis:

COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.12.18 15.00

Sample Id: AH-1 (2-2.5') Lab Sample Id: 598150-003	Matrix: Soil Date Collected: 09.05.18 00.00	Date Received:09.06.18 09.43
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: ALJ		% Moisture:

Date Prep:

Analyst: ALJ Seq Number: 3063031

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00214	0.00200		mg/kg	09.13.18 09.10		1
Toluene	108-88-3	0.133	0.00200		mg/kg	09.13.18 09.10		1
Ethylbenzene	100-41-4	0.332	0.00200		mg/kg	09.13.18 09.10		1
m,p-Xylenes	179601-23-1	0.376	0.00401		mg/kg	09.13.18 09.10		1
o-Xylene	95-47-6	0.197	0.00200		mg/kg	09.13.18 09.10		1
Total Xylenes	1330-20-7	0.573	0.00200		mg/kg	09.13.18 09.10		1
Total BTEX		1.04	0.00200		mg/kg	09.13.18 09.10		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	116	%	70-130	09.13.18 09.10		
4-Bromofluorobenzene		460-00-4	153	%	70-130	09.13.18 09.10	**	





COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	AH-1 (3-3.5') : 598150-004		Matrix: Date Colle	Soil cted: 09.05.18 00.00		Date Received:09.0	06.18 09.4	3
Analytical Me	thod: Chloride by EPA	300				Prep Method: E30)0P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 15.00		Basis: We	t Weight	
Seq Number:	3062375							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<5.00	5.00	mg/kg	09.06.18 19.24	U	1





COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	AH-1 (4-4.5') d: 598150-005		Matrix: Date Colle	Soil cted: 09.05.18 00.00]	Date Received:09	.06.18 09.4	3
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	SCM				(% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 15.00]	Basis: We	et Weight	
Seq Number:	3062375							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	< 5.00	5.00	mg/kg	09.06.18 19.29	U	1





COG Operating LLC, Artesia, NM

Sample Id:	AH-2 (0-1')		Matrix:	Soil	1	Date Received:09.0	06.18 09.4	3
Lab Sample Io	d: 598150-006		Date Colle	cted: 09.05.18 00.00				
Analytical Me	ethod: Chloride by EPA	A 300]	Prep Method: E30	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 15.00	i	Basis: We	t Weight	
Seq Number:	3062375							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	10.7	4.97	mg/kg	09.06.18 19.50		1

Analytical Method: TPH By SW80 Tech: ARM Analyst: ARM Seq Number: 3062455	15 Mod	Date Prej	p: 09.06	.18 11.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	1910	74.8		mg/kg	09.07.18 00.12		5
Diesel Range Organics	C10C28DRO	5240	74.8		mg/kg	09.07.18 00.12		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<74.8	74.8		mg/kg	09.07.18 00.12	U	5
Total TPH	PHC635	7150	74.8		mg/kg	09.07.18 00.12		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	119	%	70-135	09.07.18 00.12		
o-Terphenyl		84-15-1	85	%	70-135	09.07.18 00.12		





Prep Method: SW5030B

Wet Weight

% Moisture:

Basis:

COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.10.18 16.00

Sample Id: AH-2 (0-1')	Matrix:	Soil	Date Received:09.06.18 09.43
Lab Sample Id: 598150-006	Date Collecte	d: 09.05.18 00.00	

Date Prep:

Analytical Method: BTEX by EPA 8021B

Tech:ALJAnalyst:ALJSeq Number:3062716

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	2.57	0.498		mg/kg	09.11.18 02.50		250
Toluene	108-88-3	59.2	0.498		mg/kg	09.11.18 02.50		250
Ethylbenzene	100-41-4	76.3	0.498		mg/kg	09.11.18 02.50		250
m,p-Xylenes	179601-23-1	70.3	0.996		mg/kg	09.11.18 02.50		250
o-Xylene	95-47-6	32.3	0.498		mg/kg	09.11.18 02.50		250
Total Xylenes	1330-20-7	103	0.498		mg/kg	09.11.18 02.50		250
Total BTEX		241	0.498		mg/kg	09.11.18 02.50		250
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	657	%	70-130	09.11.18 02.50	**	
1,4-Difluorobenzene		540-36-3	90	%	70-130	09.11.18 02.50		





COG Operating LLC, Artesia, NM

Sample Id:	AH-2 (1-1.5')		Matrix:	Soil]	Date Received:09.	06.18 09.4	.3
Lab Sample I	d: 598150-007		Date Colle	ected: 09.05.18 00.00				
Analytical M	ethod: Chloride by EF	PA 300]	Prep Method: E30	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 15.00]	Basis: We	t Weight	
Seq Number:	3062375		-					
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.95	4.95	mg/kg	09.06.18 19.56	U	1

Analytical Method: TPH By SW80	15 Mod				P	Prep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 09.06	18 11.00	E	Basis: We	et Weight	
Seq Number: 3062455								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	1780	74.9		mg/kg	09.07.18 00.32		5
Diesel Range Organics	C10C28DRO	3240	74.9		mg/kg	09.07.18 00.32		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<74.9	74.9		mg/kg	09.07.18 00.32	U	5
Total TPH	PHC635	5020	74.9		mg/kg	09.07.18 00.32		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	117	%	70-135	09.07.18 00.32		
o-Terphenyl		84-15-1	126	%	70-135	09.07.18 00.32		





COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.10.18 16.00

% Moisture:

Wet Weight

Basis:

Sample Id: AH-2 (1-1.5')	Matrix: Soil	Date Received:09.06.18 09.43
Lab Sample Id: 598150-007	Date Collected: 09.05.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Date Prep:

Tech: ALJ ALJ Analyst: Seq Number: 3062716

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.95	0.499		mg/kg	09.11.18 03.10		250
Toluene	108-88-3	56.6	0.499		mg/kg	09.11.18 03.10		250
Ethylbenzene	100-41-4	80.5	0.499		mg/kg	09.11.18 03.10		250
m,p-Xylenes	179601-23-1	73.4	0.998		mg/kg	09.11.18 03.10		250
o-Xylene	95-47-6	41.0	0.499		mg/kg	09.11.18 03.10		250
Total Xylenes	1330-20-7	114	0.499		mg/kg	09.11.18 03.10		250
Total BTEX		253	0.499		mg/kg	09.11.18 03.10		250
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	780	%	70-130	09.11.18 03.10	**	
1,4-Difluorobenzene		540-36-3	125	%	70-130	09.11.18 03.10		



Certificate of Analytical Results 598150



COG Operating LLC, Artesia, NM

AH-2 (2-2.5') : 598150-008		Matrix: Date Colle	Soil cted: 09.05.18 00.00		Date Received:09.0	06.18 09.4	13
hod: Chloride by EPA SCM SCM 3062375	A 300	Date Prep:	09.06.18 15.00		% Moisture:		
	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
	16887-00-6	<4.97	4.97	mg/kg	09.06.18 20.12	U	1
	598150-008 hod: Chloride by EPA SCM SCM	598150-008 hod: Chloride by EPA 300 SCM SCM 3062375 Cas Number	598150-008 Date Colle hod: Chloride by EPA 300 SCM SCM Date Prep: 3062375 Cas Number Result	598150-008 Date Collected: 09.05.18 00.00 hod: Chloride by EPA 300 SCM SCM Date Prep: 09.06.18 15.00 3062375 Cas Number Result RL	598150-008 Date Collected: 09.05.18 00.00 hod: Chloride by EPA 300 SCM SCM Date Prep: 09.06.18 15.00 3062375 Cas Number Result RL Units	598150-008 Date Collected: 09.05.18 00.00 hod: Chloride by EPA 300 Prep Method: E30 SCM % Moisture: SCM Date Prep: 09.06.18 15.00 Basis: Wei 3062375 Cas Number	598150-008 Date Collected: 09.05.18 00.00 hod: Chloride by EPA 300 Prep Method: E300P SCM % Moisture: SCM Date Prep: 09.06.18 15.00 3062375 Cas Number Result RL Units Analysis Date Flag

Analytical Method:TPH By SW80Tech:ARMAnalyst:ARMSeq Number:3062894	15 Mod	Date Prej	p: 09.11	.18 12.00	%	Prep Method: TX 6 Moisture: Basis: We	1005P t Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	09.11.18 16.30	U	1
Diesel Range Organics	C10C28DRO	157	15.0		mg/kg	09.11.18 16.30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	16.9	15.0		mg/kg	09.11.18 16.30		1
Total TPH	PHC635	174	15.0		mg/kg	09.11.18 16.30		1
Surrogate 1-Chlorooctane		Cas Number 111-85-3	% Recovery 94	Units %	Limits 70-135	Analysis Date 09.11.18 16.30	Flag	
o-Terphenyl		84-15-1	98	%	70-135	09.11.18 16.30		



Seq Number: 3063031

Certificate of Analytical Results 598150



COG Operating LLC, Artesia, NM

Sample Id: Lab Sample	AH-2 (2-2.5') Id: 598150-008	Matrix: Date Collecte	Soil sd: 09.05.18 00.00	Date Receive	ed:09.06.18 09.43
Analytical M	lethod: BTEX by EPA 8021B			Prep Method	: SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	09.12.18 15.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.13.18 08.49	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.13.18 08.49	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.13.18 08.49	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.13.18 08.49	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.13.18 08.49	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.13.18 08.49	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.13.18 08.49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	93	%	70-130	09.13.18 08.49		
1,4-Difluorobenzene		540-36-3	107	%	70-130	09.13.18 08.49		





COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

Sample Id: Lab Sample I	AH-2 (3-3.5') d: 598150-009		Matrix: Date Colle	Soil cted: 09.05.18 00.00]	Date Received:09.	06.18 09.4	.3
Analytical M	ethod: Chloride by EP	A 300]	Prep Method: E3	00P	
Tech:	SCM				(% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 15.00]	Basis: We	et Weight	
Seq Number:	3062375							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<5.01	5.01	mg/kg	09.06.18 20.17	U	1





COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	AH-2 (4-4.5') d: 598150-010		Matrix: Date Colle	Soil cted: 09.05.18 00.00		Date Received:09.	06.18 09.4	3
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E30)0P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 15.00		Basis: We	t Weight	
Seq Number:	3062375							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	< 5.00	5.00	mg/kg	09.06.18 20.22	U	1





COG Operating LLC, Artesia, NM

Sample Id: AH-3 (Lab Sample Id: 598150		Matrix: Date Collec	Soil ted: 09.05.18 00.00		Date Received:09.	06.18 09.4	3
Analytical Method: Ch Tech: SCM	lloride by EPA 300				Prep Method: E30 % Moisture:	00P	
Analyst: SCM		Date Prep:	09.06.18 15.00		Basis: We	t Weight	
Seq Number: 3062375	5						
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.95	4.95	mg/kg	09.06.18 20.27	U	1
						10050	
Analytical Method: TH	PH By SW8015 Mod				Prep Method: TX	1005P	

Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 09.06	.18 11.00	E	Basis: W	et Weight	
Seq Number: 3062455								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbo	ns PHC610	2270	75.0		mg/kg	09.07.18 00.51		5
Diesel Range Organics	C10C28DRO	5700	75.0		mg/kg	09.07.18 00.51		5
Motor Oil Range Hydrocarbons (M	(RO) PHCG2835	<75.0	75.0		mg/kg	09.07.18 00.51	U	5
Total TPH	PHC635	7970	75.0		mg/kg	09.07.18 00.51		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	123	%	70-135	09.07.18 00.51		
o-Terphenyl		84-15-1	127	%	70-135	09.07.18 00.51		





Prep Method: SW5030B

Wet Weight

% Moisture:

Basis:

COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.09.18 10.00

Sample Id: AH-3 (0-1')	Matrix:	Soil	Date Received:09.06.18 09.43
Lab Sample Id: 598150-011	Date Collected	1:09.05.18 00.00	

Analytical Method: BTEX by EPA 8021B

Tech:	ALJ	
Analyst:	ALJ	Date Prep:
Seq Number:	3062575	

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.222	0.199		mg/kg	09.10.18 01.53		100
Toluene	108-88-3	1.33	0.199		mg/kg	09.10.18 01.53		100
Ethylbenzene	100-41-4	4.72	0.199		mg/kg	09.10.18 01.53		100
m,p-Xylenes	179601-23-1	38.0	0.398		mg/kg	09.10.18 01.53		100
o-Xylene	95-47-6	31.7	0.199		mg/kg	09.10.18 01.53		100
Total Xylenes	1330-20-7	69.7	0.199		mg/kg	09.10.18 01.53		100
Total BTEX		76.0	0.199		mg/kg	09.10.18 01.53		100
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	517	%	70-130	09.10.18 01.53	**	
1,4-Difluorobenzene		540-36-3	125	%	70-130	09.10.18 01.53		





COG Operating LLC, Artesia, NM

Sample Id:	AH-3 (1-1.5')		Matrix:	Soil		Date Received:09.0	06.18 09.4	3	
Lab Sample Io	d: 598150-012		Date Coll	ected: 09.05.18 00.00					
Analytical Me	ethod: Chloride by EF	PA 300				Prep Method: E30)0P		
Tech:	SCM					% Moisture:			
Analyst:	SCM		Date Prep	. 09.06.18 15.00		Basis: We	t Weight		
Seq Number:	3062375								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	12.1	4.96	mg/kg	09.06.18 20.33		1	

Analytical Meth	nod: TPH By SW8	015 Mod				P	Prep Method: TX	K1005P	
Tech:	ARM					9	6 Moisture:		
Analyst:	ARM		Date Pre	p: 09.06	.18 11.00	E	Basis: W	et Weight	
Seq Number:	3062455								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range H	lydrocarbons	PHC610	123	14.9		mg/kg	09.07.18 01.11		1
Diesel Range Org	anics	C10C28DRO	291	14.9		mg/kg	09.07.18 01.11		1
Motor Oil Range Hyd	lrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	09.07.18 01.11	U	1
Total TPH		PHC635	414	14.9		mg/kg	09.07.18 01.11		1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chloroocta	ne		111-85-3	100	%	70-135	09.07.18 01.11		
o-Terphenyl			84-15-1	94	%	70-135	09.07.18 01.11		





COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

09.07.18 17.00

% Moisture:

Wet Weight

Basis:

Sample Id: AH-3 (1-1.5')	Matrix: Soil	Date Received:09.06.18 09.43
Lab Sample Id: 598150-012	Date Collected: 09.05.18 00.00	
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Date Prep:

Analytical Method: BTEX by EPA 8021B

ALJ Tech: Analyst: ALJ Seq Number: 3062552

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.100	0.100		mg/kg	09.08.18 02.13	U	50
Toluene	108-88-3	0.118	0.100		mg/kg	09.08.18 02.13		50
Ethylbenzene	100-41-4	0.177	0.100		mg/kg	09.08.18 02.13		50
m,p-Xylenes	179601-23-1	1.82	0.201		mg/kg	09.08.18 02.13		50
o-Xylene	95-47-6	1.04	0.100		mg/kg	09.08.18 02.13		50
Total Xylenes	1330-20-7	2.86	0.100		mg/kg	09.08.18 02.13		50
Total BTEX		3.16	0.100		mg/kg	09.08.18 02.13		50
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	09.08.18 02.13		
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.08.18 02.13		





COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

Sample Id: AH-3 (2-2) Lab Sample Id: 598150-01	·	Matrix: Date Collec	Soil ted: 09.05.18 00.00]	Date Received:09.06.18 09.43		
Analytical Method: Chlor	ide by EPA 300]	Prep Method: E30	00P	
Tech: SCM				(% Moisture:		
Analyst: SCM		Date Prep:	09.06.18 15.00]	Basis: We	t Weight	
Seq Number: 3062375							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.96	4.96	mg/kg	09.06.18 20.38	U	1

09.06.18 20.38

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COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

Sample Id: Lab Sample I	AH-3 (3-3.5') d: 598150-014		Matrix: Date Colle	Soil cted: 09.05.18 00.00	Date Received:09.06.18 09.43			3
2	ethod: Chloride by EPA	A 300				Prep Method: E3	00P	
Tech: Analyst:	SCM SCM		Date Prep:	09.06.18 15.00		% Moisture: Basis: We	et Weight	
Seq Number:	3062375							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.95	4.95	mg/kg	09.06.18 20.43	U	1




COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

Sample Id: Lab Sample Id	AH-3 (4-4.45') d: 598150-015		Matrix: Date Colle	Soil cted: 09.05.18 00.00		Date Received:09.	06.18 09.4	.3
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E30	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 17.00		Basis: We	t Weight	
Seq Number:	3062381							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	<4.96	4.96	mg/kg	09.06.18 21.31	U	1

09.06.18 21.31

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COG Operating LLC, Artesia, NM

Sample Id: Lab Sample Id	North (0-1') d: 598150-016	Matrix: Date Colle	Soil cted: 09.05.18 00.00		Date Received:09.	06.18 09.4	3	
Analytical Me	ethod: Chloride by EPA	. 300				Prep Method: E3	90P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 17.00		Basis: We	t Weight	
Seq Number:	3062381							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	223	4.95	mg/kg	09.06.18 21.36		1

Analytical Method: TPH By SW801:	5 Mod		Prep Method: TX1005P					
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 09.06	.18 11.00	E	Basis: We	t Weight	
Seq Number: 3062455								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<14.9	14.9		mg/kg	09.07.18 01.31	U	1
Diesel Range Organics	C10C28DRO	17.9	14.9		mg/kg	09.07.18 01.31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9		mg/kg	09.07.18 01.31	U	1
Total TPH	PHC635	17.9	14.9		mg/kg	09.07.18 01.31		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-135	09.07.18 01.31		
o-Terphenyl		84-15-1	87	%	70-135	09.07.18 01.31		





COG Operating LLC, Artesia, NM

Sample Id: North (0-1') Lab Sample Id: 598150-016	Matrix: Soil Date Collected: 09.05.18 00.0	Date Received:09.06.18 09.43
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B
Tech: ALJ		% Moisture:
Analyst: ALJ	Date Prep: 09.07.18 17.0	0 Basis: Wet Weight
Seq Number: 3062552		

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.08.18 01.52	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.08.18 01.52	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.08.18 01.52	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.08.18 01.52	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.08.18 01.52	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.08.18 01.52	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.08.18 01.52	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.08.18 01.52		
1,4-Difluorobenzene		540-36-3	118	%	70-130	09.08.18 01.52		





COG Operating LLC, Artesia, NM

Sample Id:	South (0-1')		Matrix:	Soil		Date Received:09.	06.18 09.4	3
Lab Sample I	d: 598150-017		Date Colle	cted: 09.05.18 00.00				
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 17.00		Basis: We	t Weight	
Seq Number:	3062381							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1190	24.8	mg/kg	09.06.18 21.42		5

Analytical Method: TPH By SW801	5 Mod				P	Prep Method: TX1005P			
Tech: ARM					9	6 Moisture:			
Analyst: ARM		Date Pre	p: 09.06.	18 11.00	E	Basis: We	t Weight		
Seq Number: 3062455									
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	09.07.18 01.51	U	1	
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	09.07.18 01.51	U	1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	09.07.18 01.51	U	1	
Total TPH	PHC635	<15.0	15.0		mg/kg	09.07.18 01.51	U	1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	90	%	70-135	09.07.18 01.51			
o-Terphenyl		84-15-1	90	%	70-135	09.07.18 01.51			





COG Operating LLC, Artesia, NM

Sample Id: South (0-1')	Matrix: Soil	Date Received:09.06.18 09.43
Lab Sample Id: 598150-017	Date Collected: 09.05.	18 00.00
Analytical Method: BTEX by EPA 8021B		Prep Method: SW5030B

Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	09.09.18 10.00	Basis:	Wet Weight
Seq Number:	3062575				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.10.18 00.32	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.10.18 00.32	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.10.18 00.32	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	09.10.18 00.32	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.10.18 00.32	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.10.18 00.32	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.10.18 00.32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	09.10.18 00.32		
1,4-Difluorobenzene		540-36-3	96	%	70-130	09.10.18 00.32		





COG Operating LLC, Artesia, NM

ETZ State Tank Battery (7-24-18)

Sample Id: East (0-1') Lab Sample Id: 598150-018			Matrix: Date Colle	Soil cted: 09.05.18 00.00	Date Received:09.06.18 09.43			
Analytical Me	ethod: Chloride by EPA	300				Prep Method: E3	00P	
Tech:	SCM					% Moisture:		
Analyst:	SCM		Date Prep:	09.06.18 17.00		Basis: We	t Weight	
Seq Number:	3062381							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	152	4.95	mg/kg	09.06.18 21.47		1

Analytical Method: TPH By SW80	15 Mod	Prep Method: TX100					1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Prep	p: 09.06	18 11.00	E	Basis: We	t Weight	
Seq Number: 3062455								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	09.07.18 02.11	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	09.07.18 02.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	09.07.18 02.11	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	09.07.18 02.11	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	09.07.18 02.11		
o-Terphenyl		84-15-1	89	%	70-135	09.07.18 02.11		



Seq Number: 3062552

Certificate of Analytical Results 598150



COG Operating LLC, Artesia, NM

Sample Id: Lab Sample	East (0-1') Id: 598150-018	Matrix: Date Collecte	Soil ed: 09.05.18 00.00	Date Receive	ed:09.06.18 09.43
Analytical M	lethod: BTEX by EPA 8021B			Prep Method	: SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	09.07.18 17.00	Basis:	Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.08.18 04.00	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.08.18 04.00	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.08.18 04.00	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.08.18 04.00	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.08.18 04.00	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.08.18 04.00	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.08.18 04.00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	121	%	70-130	09.08.18 04.00		
4-Bromofluorobenzene		460-00-4	93	%	70-130	09.08.18 04.00		





COG Operating LLC, Artesia, NM

Sample Id: West (0-1') Lab Sample Id: 598150-019		Matrix: Date Collect	Soil ed: 09.05.18 00.00	Date Received:09.06.18 09.						
Analytical Method: Chloride	by EPA 300				Prep Method: E30)0P				
Tech: SCM					% Moisture:					
Analyst: SCM		Date Prep:	09.06.18 17.00		Basis: We	t Weight				
Seq Number: 3062381										
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil			
Chloride	16887-00-6	83.8	4.95	mg/kg	09.06.18 22.03		1			

Analytical Method: TPH By SW80	15 Mod				P	rep Method: TX	1005P	
Tech: ARM					9	6 Moisture:		
Analyst: ARM		Date Pre	p: 09.06	18 11.00	E	Basis: We	t Weight	
Seq Number: 3062455								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons	PHC610	<15.0	15.0		mg/kg	09.07.18 02.31	U	1
Diesel Range Organics	C10C28DRO	<15.0	15.0		mg/kg	09.07.18 02.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0		mg/kg	09.07.18 02.31	U	1
Total TPH	PHC635	<15.0	15.0		mg/kg	09.07.18 02.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-135	09.07.18 02.31		
o-Terphenyl		84-15-1	87	%	70-135	09.07.18 02.31		



Seq Number: 3062552

Certificate of Analytical Results 598150



COG Operating LLC, Artesia, NM

Sample Id:	West (0-1')	Matrix:	Soil	Date Receive	d:09.06.18 09.43				
Lab Sample	ld: 598150-019	Date Collecte	d: 09.05.18 00.00						
Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B									
Tech:	ALJ			% Moisture:					
Analyst:	ALJ	Date Prep:	09.07.18 17.00	Basis:	Wet Weight				

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	09.08.18 04.21	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	09.08.18 04.21	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	09.08.18 04.21	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	09.08.18 04.21	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	09.08.18 04.21	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	09.08.18 04.21	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	09.08.18 04.21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	89	%	70-130	09.08.18 04.21		
1,4-Difluorobenzene		540-36-3	116	%	70-130	09.08.18 04.21		



Flagging Criteria



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

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory 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



COG Operating LLC

ETZ State Tank Battery (7-24-18)

Analytical Method:	Chloride by EPA 30	0						Prep Method: E300P	
Seq Number:	3062375			Matrix:	Solid			Date Prep: 09.06.18	
MB Sample Id:	7661804-1-BLK		LCS Sar	nple Id:	7661804-	1-BKS		LCSD Sample Id: 7661804-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Date	Flag
Chloride	<5.00	250	265	106	262	105	90-110	1 20 mg/kg 09.06.18 18:10	
Analytical Method:	Chloride by EPA 30	0						Prep Method: E300P	
Seq Number:	3062381	v		Matrix:	Solid			Date Prep: 09.06.18	
MB Sample Id:	7661805-1-BLK		LCS Sar		7661805-	I-BKS		LCSD Sample Id: 7661805-1-BSD	
MD Sample R.		G . 1					T • • • • •	•	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD RPD Limit Units Analysis Date	Flag
Chloride	<5.00	250	268	107	273	109	90-110	2 20 mg/kg 09.06.18 21:04	
Analytical Method:	Chloride by EPA 30	0						Prep Method: E300P	
Seq Number:	3062375	U U		Matrix:	Soil			Date Prep: 09.06.18	
Parent Sample Id:	598005-001				598005-0	01 S		MSD Sample Id: 598005-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	- MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Limit Units Analysis Date	Flag
Chloride	<0.858	250	254	102	256	102	90-110	1 20 mg/kg 09.06.18 18:26	
Analytical Method:	Chloride by EPA 30	0						Prep Method: E300P	
Seq Number:	3062375			Matrix:	Soil			Date Prep: 09.06.18	
Parent Sample Id:	598005-002		MS Sar	nple Id:	598005-0	02 S		MSD Sample Id: 598005-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD RPD Limit Units Analysis Date	Flag

aramete Date Result Amount Result %Rec Result %Rec 97 99 90-110 09.06.18 19:40 Chloride < 0.855 249 242 246 2 20 mg/kg

Analytical Method:	Chloride by EPA 30					Pı	ep Metho	od: E30	OP			
Seq Number:	3062381		Matrix: Soil						Date Pr	ep: 09.0	6.18	
Parent Sample Id:	598005-003		MS Sample Id: 598005-003 S				MSD Sample Id: 598				005-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	< 0.853	249	261	105	260	104	90-110	0	20	mg/kg	09.06.18 21:20	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result



BORATORIES



COG Operating LLC

ETZ State Tank Battery (7-24-18)

Analytical Method:	Chloride by EPA 3				P	ep Metho	od: E30	OP				
Seq Number:	3062381			Matrix: Soil					Date Prep: 09.06.18			
Parent Sample Id:	598005-005		MS San	nple Id:	598005-00)5 S		MS	D Sample	Id: 598	005-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride	< 0.852	248	246	99	252	102	90-110	2	20	mg/kg	09.06.18 22:34	

Analytical Method: Seq Number: MB Sample Id:	lod		Solid 7661844-	Prep Method: TX1005P Date Prep: 09.06.18 LCSD Sample Id: 7661844-1-BSD									
Parameter	7661844-1	-BLR MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits		O RPD Limit		Analysis Date	Flag
Gasoline Range Hydro Diesel Range Organics		<8.00 <8.13	1000 1000	913 928	91 93	887 884	89 88	70-135 70-135	3 5	20 20	mg/kg mg/kg	09.06.18 12:59 09.06.18 12:59	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1-Chlorooctane		97		1	28		126			70-135	%	09.06.18 12:59	
o-Terphenyl		96		1	10		99			70-135	%	09.06.18 12:59	

Analytical Method: Seq Number: MB Sample Id:	LCS Sar	Solid 7662103-	Prep Method: TX1005P Date Prep: 09.11.18 LCSD Sample Id: 7662103-1-BSD										
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydroc	arbons	<8.00	1000	1040	104	1050	105	70-135	1	20	mg/kg	09.11.18 13:05	
Diesel Range Organics		<8.13	1000	1070	107	1140	114	70-135	6	20	mg/kg	09.11.18 13:05	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re	-	-	Limits	Units	Analysis Date	
1-Chlorooctane		92		1	23		126		7	0-135	%	09.11.18 13:05	
o-Terphenyl		97		1	14		114		7	0-135	%	09.11.18 13:05	

Analytical Method:	TPH By S	W8015 M	lod						F	Prep Meth	od: TX1	005P	
Seq Number:	3062455				Matrix:	Soil				Date Pr	ep: 09.0	6.18	
Parent Sample Id:	598151-00	1		MS Sar	nple Id:	598151-00	01 S		MS	SD Sample	e Id: 598	151-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Gasoline Range Hydroc	carbons	<7.99	998	815	82	828	83	70-135	2	20	mg/kg	09.06.18 13:59	
Diesel Range Organics		241	998	1080	84	1090	85	70-135	1	20	mg/kg	09.06.18 13:59	
Surrogate					AS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	24		125		7	0-135	%	09.06.18 13:59	
o-Terphenyl				9	95		95		7	0-135	%	09.06.18 13:59	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result





COG Operating LLC

ETZ State Tank Battery (7-24-18)

Analytical Method:	v	W8015 M	lod							Prep Method		005P	
Seq Number:	3062894				Matrix:	Soil				Date Prep	o: 09.1	1.18	
Parent Sample Id:	598400-00	1		MS Sar	nple Id:	598400-00	01 S		М	SD Sample I	d: 5984	400-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydroc	arbons	9.10	1040	993	95	1010	96	70-135	2	20	mg/kg	09.11.18 14:01	
Diesel Range Organics		8.72	1040	1060	101	1080	103	70-135	2	20	mg/kg	09.11.18 14:01	
Surrogate					/IS Rec	MS Flag	MSD %Re			Limits	Units	Analysis Date	
1-Chlorooctane				1	13		113			70-135	%	09.11.18 14:01	
o-Terphenyl				9	96		96			70-135	%	09.11.18 14:01	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3062552 7661886-1-BLK	lB	LCS San	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	p: 09.0	5030B 7.18 1886-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.106	106	0.125	125	70-130	16	35	mg/kg	09.07.18 21:15	
Toluene	< 0.00200	0.100	0.0881	88	0.0889	89	70-130	1	35	mg/kg	09.07.18 21:15	
Ethylbenzene	< 0.00200	0.100	0.102	102	0.101	101	70-130	1	35	mg/kg	09.07.18 21:15	
m,p-Xylenes	< 0.00102	0.200	0.201	101	0.198	99	70-130	2	35	mg/kg	09.07.18 21:15	
o-Xylene	< 0.00200	0.100	0.0954	95	0.0953	95	70-130	0	35	mg/kg	09.07.18 21:15	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene	122		ç	99		91		-	70-130	%	09.07.18 21:15	
4-Bromofluorobenzene	86		ç	93		90			70-130	%	09.07.18 21:15	

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3062575 7661928-1-BLK	lB	LCS San	Matrix: nple Id:	Solid 7661928-	1-BKS			Prep Metho Date Pre SD Sample	ep: 09.0	5030B 9.18 1928-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.101	101	0.0903	90	70-130	11	35	mg/kg	09.10.18 11:04	
Toluene	< 0.00200	0.0998	0.0984	99	0.0908	91	70-130	8	35	mg/kg	09.10.18 11:04	
Ethylbenzene	< 0.00200	0.0998	0.102	102	0.0937	94	70-130	8	35	mg/kg	09.10.18 11:04	
m,p-Xylenes	< 0.00399	0.200	0.203	102	0.187	93	70-130	8	35	mg/kg	09.10.18 11:04	
o-Xylene	< 0.00200	0.0998	0.102	102	0.0924	92	70-130	10	35	mg/kg	09.10.18 11:04	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	90		ç	94		88			70-130	%	09.10.18 11:04	
4-Bromofluorobenzene	94		ç	98		92			70-130	%	09.10.18 11:04	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result



BORATORIES

COG Operating LLC

ETZ State Tank Battery (7-24-18)

Analytical Method: Seq Number: MB Sample Id:	BTEX by EPA 802 3062716 7662017-1-BLK	1B	LCS Sar	Matrix: nple Id:		1-BKS			Prep Metho Date Pre SD Sample	ep: 09.1	5030B .0.18 2017-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI	O RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0947	95	0.0938	94	70-130	1	35	mg/kg	09.10.18 18:25	
Toluene	< 0.00200	0.0998	0.0957	96	0.0978	98	70-130	2	35	mg/kg	09.10.18 18:25	
Ethylbenzene	< 0.00200	0.0998	0.100	100	0.106	106	70-130	6	35	mg/kg	09.10.18 18:25	
m,p-Xylenes	< 0.00399	0.200	0.198	99	0.212	105	70-130	7	35	mg/kg	09.10.18 18:25	
o-Xylene	< 0.00200	0.0998	0.0953	95	0.103	103	70-130	8	35	mg/kg	09.10.18 18:25	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits	Units	Analysis Date	
1,4-Difluorobenzene	82		ç	91		93			70-130	%	09.10.18 18:25	
4-Bromofluorobenzene	82		ç	91		100			70-130	%	09.10.18 18:25	

Analytical Method:	BTEX by EPA 802	1B							Prep Metho	d: SW:	5030B	
Seq Number:	3063031			Matrix:	Solid				Date Pre	p: 09.1	2.18	
MB Sample Id:	7662193-1-BLK		LCS Sar	nple Id:	7662193-	1-BKS		LC	SD Sample	Id: 766	2193-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPI) RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0963	96	0.0952	95	70-130	1	35	mg/kg	09.12.18 20:08	
Toluene	< 0.00200	0.100	0.0886	89	0.0873	87	70-130	1	35	mg/kg	09.12.18 20:08	
Ethylbenzene	< 0.00200	0.100	0.0941	94	0.0947	95	70-130	1	35	mg/kg	09.12.18 20:08	
m,p-Xylenes	< 0.00400	0.200	0.191	96	0.189	94	70-130	1	35	mg/kg	09.12.18 20:08	
o-Xylene	< 0.00200	0.100	0.0934	93	0.0940	94	70-130	1	35	mg/kg	09.12.18 20:08	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene	99		1	06		102			70-130	%	09.12.18 20:08	
4-Bromofluorobenzene	80		9	99		101			70-130	%	09.12.18 20:08	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3062552 597742-001	lB	MS San	Matrix: nple Id:	Soil 597742-00)1 S			Prep Methoo Date Prej SD Sample	p: 09.0	5030B 17.18 742-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0809	81	0.0717	71	70-130	12	35	mg/kg	09.07.18 21:58	
Toluene	< 0.000455	0.0998	0.0623	62	0.0488	48	70-130	24	35	mg/kg	09.07.18 21:58	Х
Ethylbenzene	< 0.00200	0.0998	0.0702	70	0.0479	47	70-130	38	35	mg/kg	09.07.18 21:58	XF
m,p-Xylenes	< 0.00101	0.200	0.140	70	0.102	51	70-130	31	35	mg/kg	09.07.18 21:58	Х
o-Xylene	< 0.00200	0.0998	0.0693	69	0.0535	53	70-130	26	35	mg/kg	09.07.18 21:58	Х
Surrogate				IS Rec	MS Flag	MSD %Ree			Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	33		80		7	70-130	%	09.07.18 21:58	
4-Bromofluorobenzene			7	6		75		7	70-130	%	09.07.18 21:58	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Page 44 of 48





COG Operating LLC

ETZ State Tank Battery (7-24-18)

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3062575 598366-001	1B	MS San	Matrix: nple Id:	Soil 598366-00	01 S			Prep Metho Date Pre SD Sample	ep: 09.0	5030B 19.18 366-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0698	70	0.0913	91	70-130	27	35	mg/kg	09.10.18 11:04	
Toluene	< 0.00199	0.0996	0.0622	62	0.0886	89	70-130	35	35	mg/kg	09.10.18 11:04	Х
Ethylbenzene	< 0.00199	0.0996	0.0556	56	0.0896	90	70-130	47	35	mg/kg	09.10.18 11:04	XF
m,p-Xylenes	< 0.00398	0.199	0.109	55	0.178	89	70-130	48	35	mg/kg	09.10.18 11:04	XF
o-Xylene	< 0.00199	0.0996	0.0581	58	0.0875	88	70-130	40	35	mg/kg	09.10.18 11:04	XF
Surrogate				1S Rec	MS Flag	MSD %Ree		_	Limits	Units	Analysis Date	
1,4-Difluorobenzene			ç) 1		90		7	0-130	%	09.10.18 11:04	
4-Bromofluorobenzene			9	94		94		7	0-130	%	09.10.18 11:04	

Analytical Method:	BTEX by EPA 802	1B]	Prep Metho	d: SW5	5030B	
Seq Number:	3062716]	Matrix:	Soil				Date Pre	p: 09.1	0.18	
Parent Sample Id:	598482-001		MS San	nple Id:	598482-00	01 S		Μ	SD Sample	Id: 5984	482-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00257	0.129	0.106	82	0.104	81	70-130	2	35	mg/kg	09.10.18 19:05	
Toluene	< 0.00257	0.129	0.101	78	0.0941	74	70-130	7	35	mg/kg	09.10.18 19:05	
Ethylbenzene	< 0.00257	0.129	0.0961	74	0.0891	70	70-130	8	35	mg/kg	09.10.18 19:05	
m,p-Xylenes	< 0.00514	0.257	0.188	73	0.174	68	70-130	8	35	mg/kg	09.10.18 19:05	Х
o-Xylene	< 0.00257	0.129	0.0924	72	0.0862	67	70-130	7	35	mg/kg	09.10.18 19:05	Х
Surrogate				IS Rec	MS Flag	MSD %Rec		-	Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	37		94		-	70-130	%	09.10.18 19:05	
4-Bromofluorobenzene			9	03		97			70-130	%	09.10.18 19:05	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 802 3063031 598787-001	1B] MS San	Matrix: 1ple Id:)1 S			Prep Metho Date Pre SD Sample	p: 09.1	5030B 2.18 787-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI) RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00199	0.0996	0.0892	90	0.0815	82	70-130	9	35	mg/kg	09.12.18 20:51	
Toluene	< 0.00199	0.0996	0.0769	77	0.0703	70	70-130	9	35	mg/kg	09.12.18 20:51	
Ethylbenzene	< 0.00199	0.0996	0.0735	74	0.0699	70	70-130	5	35	mg/kg	09.12.18 20:51	
m,p-Xylenes	< 0.00398	0.199	0.141	71	0.133	67	70-130	6	35	mg/kg	09.12.18 20:51	Х
o-Xylene	< 0.00199	0.0996	0.0726	73	0.0700	70	70-130	4	35	mg/kg	09.12.18 20:51	
Surrogate				IS Rec	MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			10	07		100			70-130	%	09.12.18 20:51	
4-Bromofluorobenzene			10	06		86			70-130	%	09.12.18 20:51	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample) LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

Received b	y OCL		Relinquished by	22 11 eiinguis	2:	33 2	1 <i>M</i>									LAB #			Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Froject Name:		Client Name	nalysi
		ed hv	ed by:		ך AH-2 (4-4.5)	AH-2 (3-3.5')	AH-2 (2-2.5')	AH-2 (1-1.5')	AH-2 (0-1')	AH-1 (4-4.5')	AH-1 (3-3.5')	AH-1 (2-2.5')	AH-1 (1-1.5')	AH-1 (0-1')				Run Deeper								s Request of Cl
		Date: Time:	Date: Time:	Date: Lime:)))))			SAMPLE IDENTIFICATION		Run Deeper samples if TPH exceeds 1000 mg/kg.		Xenco	COG	Eddy County, New Mexico	ETZ State Tank Battery (7-24-18)	COG		nalysis Request of Chain of Custody Record
ORIGINAL COPY			Received by:	Received by: -	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	DATE	YEAR:	SAMPLING			Sampler Signature:		Project #:		olle Mallager.		
×	Ç	7	Da	MOUL 9	×	×	×	×	X	×	×	×	×	×	WATER SOIL HCL		MATRIX			Ike Tavarez				lke Tavarez	One Center/ Avenue/M Tel (432	
	Date: I'me:		Date: Time:	Time:	X	×	×	×	×	×	×	×	×	×	HNO ₃ ICE		PRESERVATIVE METHOD			lrez				2	One Concho Center/600/Illinois Avenue/Midland, Texas Tel (432) 683-7443	$\mathcal{C}\mathcal{T}$
				can3	1	1	<u> </u>	-	<u> </u>	1		1	-	-	# CONTA											and i
(Circ	٢		Sam					×	×				×		BTEX 80	21B	BTE		60B							N
(Circle) HAND DELIVERED	9. 	ン ~~~	Sample Temperature	LAB USE				×	×				×	×	TPH 801	5M (- M	RO)						\bigcirc
DELIVE	R.	2	erature	Y SE											Total Meta TCLP Met	als A							— (i			
1 1				REMARKS:											TCLP Vola TCLP Sen								\$ \$	ANAL		
FEDEX	Special	Rush C		RKS:											RCI GC/MS Vo									ANALYSIS		
UPS	Report	harges	Same Day												GC/MS Se PCB's 80			270C/	625					REQUEST		
Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized			×	×	×	×	×	×	×	×	×		NORM PLM (Asb Chloride	esto	s)							EST		Page
#	yr TRRF	:ed	24 hr (2			~					~				Chloride General V	_	ulfate er Cher	TDS		e attar	hed list	t)				Ð
	³ Report		the second	ţ											Anion/Cat							-/	~dg	- *		
			12 hr	×																						'ଦ୍
Released to	o Imag	ing:	: 1/2	5/2023	3:3	7:1	3 P.	1					Par		Hold						1.00					

Received by OCD: 11/8/2022 11:22:33 AM

		Relinquished by:	Relinquished by:	Contraction of the	Palifornishadhu									LAB USE ONLY	LAB #			Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:		Analysis Re
		r: Date: Time:	Date: Time:	5-5	West)-1')	East (0-1')	South (0-1')	North (0-1')	AH-3 (4-4.5')	AH-3 (3-3.5')	AH-3 (2-2.5')	AH-3 (1-1.5')	AH-3 (0-1')		SAMPLE IDENTIFICATION		Run Deeper samples if TPH exceeds 1000 mg/kg.		atory: Xenco	COG	Eddy County, New Mexico	ETZ State Tank Battery (7-24-18)	COG		Analysis Request of Chain of Custody Record
		Received by:	Redeived by:	Riture	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	9/5/2018	DATE	YEAR;	SAMPLING			Sampler Signature:		Project #:		Site Manager:		
		Date:	• Date:	wh 9/10/116	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃	R	MATRIX PRE			lke Tavarez				lke Tavarez	One Concho Center/600/litinois AvenueMikland, Texas Tel (432) 883-7443	
		Time:	Time:	S OAUS	× 1	X 1	×	X 1	X 1	×	X 1	× 1	×	ICE # CONT										500/Illinois Texas 443	
(Circle) HAND DELIVERED	201		Sample Temperature	LAB USE	×××	×	×	X X				× ×		BTEX 8 TPH TX TPH 80 PAH 82 Total Me TCLP M	(1005 15M (70C etals A	BTI (Ext to GRO	- DRO Ba Cd (- M Cr P	RO) b Se ⊦				(0)		59
FEDEX UPS	Special Report	Rush Charges Authorized	RUSH: Same	REMARKS:										TCLP V TCLP S RCI GC/MS GC/MS PCB's 8	olatile emi Vo Vol. 8 Semi.	s olatiles 260B / Vol. 8	624						ξĮ		78 ISO
Tracking #:	Special Report Limits or TRRP Report	Authorized	RUSH: Same Day 24 hr (48 hr)	È	×	×	×	X	×	X	×	×	×	NORM PLM (As Chloride General Anion/C	e S I Wate	ulfate er Che			e atta	ched lis	st)		JEST		Page
	4		Chr.	5										Hold											

Received by OCD: 11/8/2022 11:22:33 AM

#14 Sample container(s) intact?

#17 Subcontract of sample(s)?



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: COG Operating LLC Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 09/06/2018 09:43:00 AM Temperature Measuring device used : R8 Work Order #: 598150 Sample Receipt Checklist -2.1 #1 *Temperature of cooler(s)? #2 *Shipping container in good condition? Yes #3 *Samples received on ice? Yes #4 *Custody Seals intact on shipping container/ cooler? N/A #5 Custody Seals intact on sample bottles? N/A #6*Custody Seals Signed and dated? N/A #7 *Chain of Custody present? Yes #8 Any missing/extra samples? No #9 Chain of Custody signed when relinquished/ received? Yes #10 Chain of Custody agrees with sample labels/matrix? Yes #11 Container label(s) legible and intact? Yes #12 Samples in proper container/ bottle? Yes #13 Samples properly preserved? Yes

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

Analyst:

PH Device/Lot#:

#15 Sufficient sample amount for indicated test(s)?

#18 Water VOC samples have zero headspace?

#16 All samples received within hold time?

Checklist completed by: Brianna Teel

Date: 09/06/2018

Yes

Yes

Yes

N/A

N/A

Comments

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 09/06/2018

APPENDIX D Regulatory Correspondence

<u>ta Neel; Sheldon</u>
<u>(t</u>

Mr. Billings,

Please find the attached Work Plan for the COG ETZ State Tank Battery (2RP-4887) Release which occurred on 7/24/18. The work plan was originally submitted to the NMOCD District 2 Office on November 7, 2018. COG is requesting that you review this work plan which has been approved by the State Land Office (please see the attached approval).

Thank You,

Becky Haskell Senior HSE Coordinator COG Operating LLC 600 W Illinois Avenue | Midland, TX 79701 Direct: 432-818-2372 | Main: 432.683.7443 Cell: 432-556-5130 rhaskell@concho.com

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From: Ike Tavarez

Sent: Wednesday, November 07, 2018 12:24 PM

To: Pruett, Maria, EMNRD <Maria.Pruett@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>
Cc: mike.bratcher@state.nm.us; Rebecca Haskell <RHaskell@concho.com>; Dakota Neel
<DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant
<agrant@concho.com>

Subject: COG Operating - ETZ State Tank Battery (7-24-18) 2 RP 4887

Maria and Ryan,

Here is the Work Plan for the COG-ETZ State Tank Battery located in Eddy County, New Mexico. Let me know if you have any questions or comments on the report, thanks

Ike Tavarez, PG Senior HSE Supervisor COG Operating LLC 600 W Illinois Avenue | Midland, TX 79701 Direct: 432-685-2573| Main: 432-683-7443 Cell: 432-701-8630 itavarez@concho.com



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NMSLO approves of the work plan as written with the following comments: confirmation samples and the floor and sidewall are necessary, no more than 50 ft apart. NMOCD may have additional comments

Ryan Mann Remediation Specialist Field Operation Division (575) 392-3697 (505) 699-1989 New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

From: Ike Tavarez [mailto:itavarez@concho.com] Sent: Wednesday, November 7, 2018 11:24 AM To: Pruett, Maria, EMNRD <Maria.Pruett@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us> Cc: mike.bratcher@state.nm.us; Rebecca Haskell <RHaskell@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrant@concho.com> Subject: COG Operating - ETZ State Tank Battery (7-24-18) 2 RP 4887

Maria and Rvan.

Here is the Work Plan for the COG-ETZ State Tank Battery located in Eddy County, New Mexico. Let me know if you have any questions or comments on the report, thanks

Ike Tavarez, PG Senior HSE Supervisor COG Operating LLC 600 W Illinois Avenue | Midland, TX 79701 Direct: 432-685-2573| Main: 432-683-7443 Cell: 432-701-8630 itavarez@concho.com

СОИСНО

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 $Gm4Q574 jloPo3mqazRHM j00E prpEY \\ SrIS6Ka8wwfHtG_44JqGpLgsw5fs64oEB7QtMadlahPFDLvx0PBO8ALKge8mOOkz2H5eRRiGN jRFnuHlhud0tk3ZY \\ jW1kCwtZEp jmo4GKoLF-topper \\ SrIS6Ka8wwfHtG_44JqGpLgsw5fs64oEB7QtMadlahPFDLvx0PBO8ALKge8mOOkz2H5eRRiGN \\ jRFnuHlhud0tk3ZY \\ jW1kCwtZEp jmo4GKoLF-topper \\ jRfnuHlhud0tk3ZY \\ jW1kCwtZEp jmo4GKoLF-topper \\ jW$ 5Q0DmeWRK9rY5lyLVn_Sjc80JJWkUP_AXaIr-v0qVm1GEYEeC1LV2YstQsyhsibRM9sFS-C3vs2qcOd8wEjKXmoS4SXBgI9OdkPS8frsCZLeDNKEvMWNZ_5BNGFWVYfYC3xVYBUrZLhw0NOgv4Ijul-UTGncn7lwX8QZHdNGtkabqw-

lYHrSpIJzY73uQqJ9HjY_YjrkYtFY6_HP9lcA4&u=http%3A%2F%2Fwww.symanteccloud.com

APPENDIX E Photographic Documentation











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

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

District III

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

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	157085
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By Condition

We have received your closure report and final C-141 for Incident #NAB1821441378 ETZ STATE UNIT BATTERY, thank you. This closure is approved. 1/25/2023 rhamlet

CONDITIONS

Action 157085

Condition Date