

Remediation Summary & Closure Request

Property: Concho Operating, LLC. Cottonwood 36 State SWD #1 Eddy County, New Mexico Unit Letter "K", Section 35, Township 25 South, Range 26 East Latitude 32.0844536, Longitude -104.2486954 2RP-3695

December 2017

Prepared for:

Concho Operating, LLC. 600 West Illinois Avenue Midland, TX 79701 Attn: Mrs. Rebecca Haskell

Prepared by:

Reint

Ryan Reich Environmental Project Manager

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Thomas Franklin Environmental Manager

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

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Remediation Summary & Closure Request

Concho Operating, LLC. Cottonwood 36 State SWD #1 Eddy County, New Mexico Unit Letter "K", Section 35, Township 25 South, Range 26 East Latitude 32.0844536, Longitude -104.2486954 2RP-3695

December 2017

1.0 INTRODUCTION

1.1 Site Description & Background

American Safety Services Inc. (ASSI) has prepared this Closure Request for the Concho Operating, LLC. (COG) Cottonwood 36 State SWD #1. This Closure request is based upon the interpretation of the data collected by COG and ASSI.

The Cottonwood 36 State SWD #1 (referred to hereinafter as the "Site" or "subject Site") is located in Unit Letter "K", Section 35, Township 25 South, Range 26 East, Eddy County, New Mexico (GPS 32.0844536N, -104.2486954W).

Remedial actions were conducted by COG and ASSI in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (*NMAC 19.15.29 Release Notification*) and the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

1.2 **Project Objective**

The objective of the Closure Request is to present documentation of the activities that were performed to date and to request an effective means to close the Site.

1.3 Standard of Care

ASSI's services are performed in accordance with standards provided by a firm rendering the same or similar services in the area during the same time period. ASSI makes no warranties, express or implied, as to the services performed hereunder. Additionally, ASSI does not warranty the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

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1.4 Reliance

This report has been prepared for the exclusive use of COG, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of COG and ASSI. Any unauthorized distribution or reuse is at the sole risk of COG. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and ASSI's Agreement. The limitation of liability defined in the agreement is the aggregate limit of ASSI's liability to the client.

2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

The Site is subject to regulatory oversight by the NMOCD. To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29 *Release Notification.* These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases*, ASSI utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Rankin	g Criteria		Ranking Score			
	<50 feet	20				
Depth to Groundwater	50 to 99 feet	10	20			
	>100 feet	0				
Wellhead Protection Area, <a> <1,000 feet from a water	Yes	20				
source, or; <200 feet from private domestic water source.	No	0	0			
Distance to Surface Water	<200 feet	20				
Body	200 to 1,000 feet	10	0			
Body	>1,000 feet	0				
Total Rai	Total Ranking Score					

Based on ASSI's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 20. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is less than 50 feet at the Site.
- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

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Based on a Total Ranking Score of 20, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for Benzene, 50 mg/Kg for Total Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), 100 mg/Kg for Total Petroleum Hydrocarbons (TPH), and 600 mg/Kg for Chloride.

Figures 1 and 2 show the location of the Site in Lea County, New Mexico and surrounding topography.

2.1 Groundwater Research

According to research conducted on the New Mexico Office of the State Engineer (NMOSE) groundwater database, no registered water wells are located in section 36. According to ChevronTexaco Groundwater Trend Map, groundwater is between twenty-five (25) and fifty (50) feet in the approximate location of the Site.

3.0 INITIAL RESPONSE & ACTIVITIES

3.1 Initial Response

On June 15, 2016, COG personnel responded to a reportable release that occurred on May 6, 2016. Five (5) bbls of produced water were released directly to the ground caused when the threading collar above the master valve washed out on the wellhead. Three (3) bbls of the fluid was recovered. The release impacted approximately two hundred (200) square feet of production pad area (Figure 3).

3.2 Sampling Activities

Sampling activities were conducted on June 15, 2016 by COG utilizing a stainless steel hand auger. Two (2) auger holes were installed, each to depths ranging from surface (0') to three (3) foot below ground surface (bgs) (Table 1) and shown on Figure 4. Discrete samples were collected from all auger hole locations at the following intervals: Surface, 1', 2' and 3' bgs. Soil was field screened for Chloride utilizing electro conductivity during sampling activities.

3.3 Soil Sampling Analytical Results

Analytical results were compared to the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* (Section VI A. Contaminated Soils) and show BTEX and TPH are both vertically throughout the entire release footprint, however, Chloride levels in both sample locations are above the NMOCD clean-up goals as discussed in Section 2.0. Specifically, at sample location S1, the highest Chloride concentration was 2,480 mg/Kg at the surface with vertical delineation achieved at one (1) foot bgs with a Chloride concentration of 416 mg/Kg. Sample location S2 had the most elevated Chloride concentration of 4,800 mg/Kg at the surface and vertical delineation was achieved at two (2) feet bgs with a concentration of 288 mg/Kg. Delineation efforts were achieved during the implementation of the approved remediation work plan. Each location meets the NMOCD's threshold of 600 mg/Kg satisfying clean-up goal criteria.

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3.4 Excavation Activities

Excavation remediation activities were conducted by ASSI and began in the area previously identified. Mr. Ryan Reich, an ASSI environmental professional, was present to observe on-Site activities. Remediation efforts began on September 15, 2017 and were completed on September 25th and included the removal of impacted material from the Site and transporting it off-Site to an appropriate disposal facility. The final dimensions of the excavation were thirty-five (35) feet in length, twenty-five (25) feet in width and one and one (1) feet in depth near the center as shown in Figure 4 (Appendix A). Approximately forty (40) cubic yards (yd³) of impacted soil was transported to R-360 Environmental Solutions for proper disposal, the manifests are shown in Appendix E.

3.4.1 Excavation Confirmation Soil Sampling Program

Confirmation sampling to confirm the horizontal extent of the release was conducted on November 21, 2017. A total of five (5) samples were collected, a horizontal delineation sample in each perspective cardinal direction (CS-1 North, CS-1 South, CS-1 East and CS-1 West) and an excavated bottom (CS-1 Bottom). The Confirmation samples were collected for Chloride, all confirmation samples were below NMOCD guidelines.

4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for TPH GRO/DRO utilizing EPA method SW-846 8015, BTEX using EPA method SW-846 8021B, and Chloride utilizing EPA method SW-846 300.1. Copies of the laboratory analysis are provided in Appendix D.

Soil was collected in laboratory prepared glassware, placed on ice, and packed in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Cardinal Laboratories in Hobbs, New Mexico for the September 21st sampling event and to Xenco Laboratories in Midland, Texas for the August 21st sampling event.

Figure 4 shows the approximate location of the sampling (i.e., Auger Hole, Sidewall and Trench) locations and dimensions of the previously excavated area in relation to pertinent land features and general Site boundaries, which is included in Appendix A.

5.0 REMEDIATION SUMMARY AND CLOSURE REQUEST

Based upon the data provided by ASSI, the constituents of concern were horizontally and vertically delineated below the cleanup levels. The excavated area was backfilled and brought to grade with clean material. Based upon the response actions and laboratory analytical results, no additional investigation and/or remediation appears warranted at this time. ASSI respectfully requests closure of the Site on behalf of COG. Copies of the Initial and Final C-141 are provided in Appendix D.



APPENDIX A

Figures

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0

4

62

Cottonwood 36 State SWD #1

50 mi

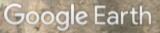
Page 8 of 46

Site

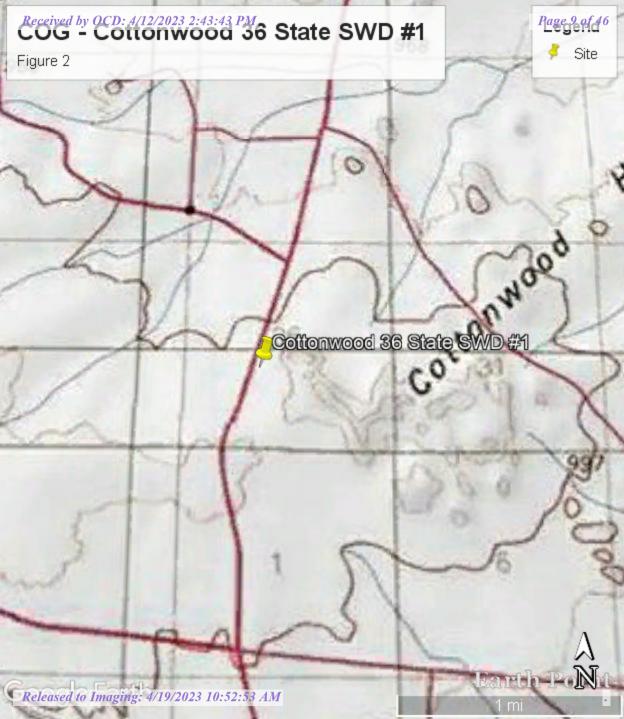
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Figure 1



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Figure 3

Legend

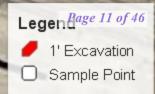


Release Footprint Sample Point



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Figure 4





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APPENDIX B

Table 1

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	TABLE 1 Summary of Delineation Sampling Analytical Results Concentrations of Benzene, BTEX, TPH & Chloride in Soil Concho Operating, LLC Cottonwood 36 State SWD #1 Eddy County, New Mexico NMOCD REF: #2RP-3695												
SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	8021B ETHYLBENZENE (mg/Kg)	XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	8015M DRO (mg/Kg)	Total TPH (mg/Kg)	300.0 CHLORIDE (mg/Kg)	
NMOCD - Guid	lelines for Remediat	ion of Leaks, Spills	and Releases	10	NE	NE	NE	50	NE	NE	100	600	
					Vertical Deli	nation Sampling	•				•		
S1	Surface	6/15/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	2,480	
S1	1'	6/15/2016	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	416	
S1	2'	6/15/2016	In-Situ	-	-	-	-	-	-	-	-	544	
S1	3'	6/15/2016	In-Situ	-	-	-	-	-	-	-	-	800	
S2	Surface	6/15/2016	In-situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,800	
S2	1'	6/15/2016	In-situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	800	
S2	2'	6/15/2016	In-situ	-	-		-	-	-	-	-	288	
S2	3'	6/15/2016	In-situ	-	-	-	-	-	-	-	-	560	
CS-1 North	-	11/21/2017	In-situ	-	-	-	-	-	-	-	-	122.79	
CS-1 South	-	11/21/2017	In-situ	-	-	-	-	-	-	-	-	164.83	
CS-1 East	-	11/21/2017	In-situ	-	-	-	-	-	-	-	-	218.90	
CS-1 West	-	11/21/2017	In-situ	-	-	-	-	-	-	-	-	112.99	
CS-1 Bottom	-	11/21/2017	In-situ	-	-	-	-	-	-	-	-	120.11	

mg/Kg - milligrams per Kilogram

— = Not Established

Concentrations in **BOLD** exceed the NMOCD Guidelines

In-situ = sample collected in place

- existing liner



APPENDIX C

Laboratory Analysis

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June 21, 2016

LUPE CARRASCO COG Operating, LLC

500 W. ILLINOIS

Midland, TX 79701

RE: COTTONWOOD 36 STATE SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 06/15/16 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/09/2016
Reported:	06/21/2016	Sampling Type:	Soil
Project Name:	COTTONWOOD 36 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S1-SURFACE (H601320-01)

BTEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357	
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/16/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE 103 % 73.6-140

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	06/17/2016	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	72.6	% 35-147							
Surrogate: 1-Chlorooctadecane	71:1	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte

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Received:	06/15/2016	Sampling Date:	06/09/2016
Reported:	06/21/2016	Sampling Type:	Soil
Project Name:	COTTONWOOD 36 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S1-1' (H601320-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357	
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/16/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/17/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	57.8	% 35-147	,						
Surrogate 1-Chlorooctadecane	62.1	28-171	,						

Sample ID: S1-2' (H601320-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/17/2016	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received: Reported: Project Name: Project Number: Project Location:	06/15/2016 06/21/2016 COTTONWOOD 36 STATE SWD #1 NONE GIVEN NONE GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	06/09/2016 Soil Cool & Intact Jodi Henson
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Sample ID: 51-3' (H601320-04)

Chloride, SM4500CI-B mg/kg			Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/17/2016	ND	432	108	400	0.00	

Sample ID: S2-SURFACE (H601320-05)

BTEX 8021B	mg;	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357	
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/16/2016	ND					
	1.00					2			

Surrogate: 4-Bromofluorobenzene (PIE 101 % 7

101 %	73.6-140	

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	06/17/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: I-Chlorooctane	75.6	% 35-147	•		-102024				
Surrogate: 1-Chlorooctadecane	75.3	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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Received:	06/15/2016	Sampling Date:	06/09/2016
Reported:	06/21/2016	Sampling Type:	Soil
Project Name:	COTTONWOOD 36 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S2-1' (H601320-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357	
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/16/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	6 73.6-14	0						
Chloride, SM4500Ci-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	800	16.0	06/17/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	68.0	% 35-147	,						
Surrogate: 1-Chlorooctadecane	70.9	% 28-171	1						

Sample ID: S2-2' (H601320-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/17/2016	ND	432	108	400	0.00	

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PLEASE MOTE: Liability and Damages. Cardinal's Bability and cleant's exclusive remedy for any clean arrang, whether based is contract or text, shall be lawed to the amount paid by clent for analyses. All cleans, including those for negligence and any other cause whistowner shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable served. In no event shall Cardinal be labele for incidental damages, including, without bination, business instamptions, loss of use, or base of profits incurred by cleant labelances, affiliates or successors ensuing out of or making to the teacher teach ender by Cardinal, regardless of whether such claims is based upone stoted readout and or contracts.

Celleg & Kanne

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



COG Operating, LLC LUPE CARRASCO 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:	06/15/2016	Sampling Date:	06/09/2016
Reported:	06/21/2016	Sampling Type:	Soil
Project Name:	COTTONWOOD 36 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S2-3' (H601320-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/17/2016	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celang & Kenne -

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
•••	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLENSE NOTE: Listelity and Damages. Cardinal's labelity and cherc's exclusive reminity for any cleim ansing, whether beaid in contract or tort, shall be limited to the amount paid by cleint for analyses. All clears, including those for neglogence and any other curs whiteboever shall be deemed where need unless made in writing and received by Clerchiel within thirty (20) days after completion of the applicable service. In no event shall Cardinal be fable for incidental or consequential damages, including, without limitation, business interruptions, lose of use, or lose of profits incurred by Clerchiel resultances, affiliates or auccessors around participation of or maleted to the performance of the services hereunder by Clerchiel, regardless of whether such climit is based to one write damates or otherwise. Heads relate notify to the samples interruptions.

Cellery 2 Kanne

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

Page 22 of 46

101

101	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
ime:	COG Operating LLC	
:Jege	ager: Lupe Carrasco	P.O.#:
208 W	2208 West Main	

Company Name:	ne: COG Operating LLC	TC				BILL TO				NA NA	ANAI VSIS	BEOLIEST	E S E			Γ
Project Manaç	Project Manager: Lupe Carrasco				P.O.#:		National States	\vdash	\vdash							Γ
Address: 22	2208 West Main				Company:	COG Operating LLC	ling LLC		_					_		
City: Artesia	ā	State: NM	Zip	88210	Attn:	Robert McNeill	産業	_								
Phone #:	(575) 748-6940	Fax #:			Address:	600 W Illinois	nois									
Project #:		Project Owner:			City:	Midland						_				
Project Name:	Project Name: Cottorwood 36 State SWD #1	SWD #1			State: TX	Zip: 79701	1			_						
Project Location:	on:				Phone #: (432) 221-0388	2) 221-0368				_	_			_		
Sampler Name:	e: Lupe Carrasco				Fax #:											
FOR LAB USE ONLY				MATRIX	PRESERV.	SAMPLING	Q								_	
Lab I.D. Heo (320			(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	reatemater Soil Oil Seudoe	отнея : Acid/8A5e: Ice / Cool Этнея :	DATE	X318		Chloride		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		
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'n			×			6/9/16		××	-					1		
I	S1-2'		×			6/9/16			×							
7	S1-3'		×			6/9/16			×							
v ۱	S2-SURFACE		×			6/9/16		×	×							
) ف	S2-1'		×		<u></u>	6/9/16		×	×							
	S2-2'		×			6/9/16			×							
	S2-3'		×			6/9/16			×							
PLEASE MOTE: Lookity and Damagas. Cl analyses. Al claims installing those for neg serves. In no event shall Cardinal be hable	TLEAGE (HOTE: Leichtly and Damages. Cardinalls leichtly and charcfe suchanne remnaly file any clean array nabyees. Al charm: molucing those for nagingeness and any colmi cause whethore shell be dominal series arres. In the series shell Cardinal be hubble for rescionals or consequential charages. Included whether Include	ustratis subbly and charts exclusion remark for any clean analy- figures and any clean cause whethoever shall be deemed using for rectional or consequential demages, frictioned advanta integr	and a strain of the second sec	first based in cardinat or is made in white good in a none of international fee	s shrint we been in carity and the times is the amount paid by the claim to the structure makes on the convector by Careford by the amount paid by the claim to the durings manual on the claim of the structure after 30 days after completion of the applicable to Days after the matching the structure between 0 days after completion of the applicable to be applied on the structure of the structure of the structure between 0 days after a structure of the applicable to be applied on the structure of the structure of the structure of the structure of the applicable to be applied on the structure of the structure	The amount paid by 1 in 30 days when com a broaded by channel	The chart for the splatter of the applica-	-				-				
Relinquisted E	attimes or successors array out of or related to the performance Relinquished By:	Pate: Received by Codes, represented of whether a street in the second s	leceived	d whether such clears to By:	was of whether such claim is based upon any of the above stand n ed. $B_{\boldsymbol{Y}}$:	T P	Phone Result:	D Yes	- 11	No Add	Add'l Phone #					Γ
Relinquished By:				are C	Quarter Cabrero)	Fax Result: C Yes REMARKS: <u>9CarraSC</u> atruillo@concho.com	ocarrasco ccarrasco ccho.com		2						
Delivered By	Delivered By: (Circle One)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sample Condition Cool intact	on CHECKED BY: 1 (Initials)	ED BY: als)										
FORM-006	Sampler - Urs - Dus - Outer: FORM-006 R 2.0	2,80			¥											

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t Cardinal cannot accept verbai changes. Please fax written changes to 575-393-2476 せどう



Project Id:

Contact:Thomas FranklinProject Location:Eddy Co., NM

Certificate of Analysis Summary 569309

American Safety Services, Odessa, TX

Project Name: COG-Cottonwood State 36 SWD #1



Date Received in Lab:Wed Nov-22-17 03:30 pmReport Date:04-DEC-17Project Manager:Brandi Ritcherson

	Lab Id:	569309-0	001	569309-0	002	569309-0	003	569309-	004	56930)9-005	
Analysis Requested	Field Id:	CS-1 No	rth	CS-1 So	uth	CS-1 Ea	ist	CS-1 W	est	CS-1	Bottom	
Analysis Kequestea	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOI	IL	
	Sampled:	Nov-21-17	13:00	Nov-21-17	13:05	Nov-21-17	13:10	Nov-21-17	13:15	Nov-21-1	7 13:15	
Chloride by EPA 300	Extracted:	Dec-01-17 13:00		Dec-01-17	13:00	Dec-01-17	13:00	Dec-01-17	13:00	Dec-01-17	7 13:00	
	Analyzed:	Dec-01-17	Dec-01-17 19:29		19:35	Dec-01-17 19:41		Dec-01-17 19:47		Dec-01-17	7 19:49	
	Units/RL:	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	mg/L	RL	
Chloride		122.79	4.9505	164.83	4.9702	218.90	4.9900	112.99	4.9213	120.11	4.9213	

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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Brand Rotinson

Brandi Ritcherson Project Manager

for American Safety Services

Project Manager: Thomas Franklin

COG-Cottonwood State 36 SWD #1

04-DEC-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Received by OCD: 4/12/2023 2:43:43 PM



04-DEC-17

Project Manager: **Thomas Franklin American Safety Services** 8715 Andrews Hwy Odessa, TX 79765

Reference: XENCO Report No(s): **569309 COG-Cottonwood State 36 SWD #1** Project Address: Eddy Co., NM

Thomas Franklin:

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) 569309. 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. 569309 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,

mand

Brandi Ritcherson Project Manager

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Sample Cross Reference 569309



American Safety Services, Odessa, TX

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-1 North	S	11-21-17 13:00	In	569309-001
CS-1 South	S	11-21-17 13:05	In	569309-002
CS-1 East	S	11-21-17 13:10	In	569309-003
CS-1 West	S	11-21-17 13:15	In	569309-004
CS-1 Bottom	S	11-21-17 13:15	In	569309-005



CASE NARRATIVE

Client Name: American Safety Services Project Name: COG-Cottonwood State 36 SWD #1

Project ID: Work Order Number(s): 569309
 Report Date:
 04-DEC-17

 Date Received:
 11/22/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None





American Safety Services, Odessa, TX

Sample Id: Lab Sample Id:	CS-1 North 569309-001		Matrix: Date Colle	Soil cted: 11.21.17 13.00	I	Date Received:11.2	22.17 15.30)
Analytical Meth	od: Chloride by EPA	300			I	Prep Method: E30	0P	
Tech: N	MNV				ç	% Moisture:		
Analyst: N	MNV		Date Prep:	12.01.17 13.00	I	Basis: We	t Weight	
Seq Number: 3	3034798							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	122.79	4.9505	mg/L	12.01.17 19.29		1





American Safety Services, Odessa, TX

Sample Id: C Lab Sample Id: 50	CS-1 South 69309-002		Matrix: Date Collec	Soil cted: 11.21.17 13.05	Ι	Date Received:11	.22.17 15.30	0
Analytical Metho	d: Chloride by EPA 3	300			I	Prep Method: E3	300P	
Tech: M	NV				9	% Moisture:		
Analyst: M	NV		Date Prep:	12.01.17 13.00	H	Basis: W	et Weight	
Seq Number: 30	34798							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	164.83	4.9702	mg/L	12.01.17 19.35		1





American Safety Services, Odessa, TX

Sample Id: Lab Sample Id:	CS-1 East 569309-003		Matrix: Date Colle	Soil cted: 11.21.17 13.10]	Date Received:11.2	22.17 15.3	0
Analytical Met	hod: Chloride by EPA	300]	Prep Method: E30	0P	
Tech:	MNV				(% Moisture:		
Analyst:	MNV		Date Prep:	12.01.17 13.00]	Basis: Wet	t Weight	
Seq Number:	3034798							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	218.90	4.9900	mg/L	12.01.17 19.41		1





American Safety Services, Odessa, TX

Sample Id: Ca Lab Sample Id: 56	S-1 West 59309-004		Matrix: Date Collec	Soil cted: 11.21.17 13.15	Γ	Date Received:1	1.22.17 15.30)
Analytical Method	l: Chloride by EPA 3	600			P	Prep Method: E	300P	
Tech: MI	NV				9	6 Moisture:		
Analyst: MI	NV		Date Prep:	12.01.17 13.00	E	Basis: W	Vet Weight	
Seq Number: 30.	34798							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	112.99	4.9213	mg/L	12.01.17 19.47		1





American Safety Services, Odessa, TX

Sample Id: Lab Sample I	CS-1 Bottom d: 569309-005		Matrix: Date Colle	Soil cted: 11.21.17 13.17]	Date Received:11.2	22.17 15.3	0
Analytical Mo	ethod: Chloride by EPA	. 300]	Prep Method: E30	0P	
Tech:	MNV					% Moisture:		
Analyst:	MNV		Date Prep:	12.01.17 13.00]	Basis: Wet	t Weight	
Seq Number:	3034799							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	112.99	4.9213	mg/L	12.01.17 19.47		1



LABORATORIES

Flagging Criteria



Page 33 of 46

- 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 LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282	(602) 437-0330	

Final 1.000



American Safety Services

Analytical Method:	Chloride by EPA 3	00						Pr	ep Metho	od: E300	OP 90	
Seq Number:	3034798			Matrix:	Solid				Date Pre	ep: 12.0	1.17	
MB Sample Id:	7635271-1-BLK		LCS Sar	nple Id:	7635271-	1-BKS		LCS	D Sample	Id: 7635	5271-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	< 5.0000	250.00	255.00	102	246.60	00	90-110	3	20	mg/L	12.01.17 17:07	

Analytical Method:	Chloride by EPA 30)0						Pı	ep Metho	d: E30	0P	
Seq Number:	3034798 Matrix:			Soil				Date Pre	ep: 12.0	1.17		
Parent Sample Id:	569304-006		MS Sar	nple Id:	569304-00)6 S	5 S MSD Sample Id: 569304-0			304-006 SD		
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD MSD Limits %RPD RPD U Result %Rec Limit			Units	Analysis Date	Flag		
Chloride	1082.0	248.00	1277.7	79	1273.5	77	90-110	0	20	mg/L	12.01.17 17:25	Х

Analytical Method:	Chloride by EPA 30)0						Pr	ep Metho	od: E30	0P	
Seq Number:	3034798			Matrix: Soil			Date Prep: 12.01.17					
Parent Sample Id:	569305-003		MS San	nple Id:	569305-00)3 S		MSD Sample Id: 5693			305-003 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.9900	250.00	276.22	110	274.98	110	90-110	0	20	mg/L	12.01.17 18:48	

XENCO	CHAIN OF CUST	CUSTODY		
Setting the Standard since 1990	Page 🕂 Of			
Stafford,Texas (281-240-4200)	San Antonio, Texas (210-509-3334)	Phoenix, Arizona (480-355-0900)	180-355-0900)	
Dallas Texas (214-902-0300)	Midland, Texas (432-704-5251)			
	WWW.XENCO.COM	Xenco Quote #	Xance Job # 51,091 304	
		Analyt	Analytical Information Matri	Matrix Codes
Client / Reporting Information	Project Information			
Company Name / Branch: American Safety Services Inc.	Projoct Namo/Numbor: 2061 - (uter wind State 36 SwD #1		W = W2 S = Soi	W = Water S = Soil/Sed/Solid
Company Address: That Andress Hy Thates T Y 0765	le NA		GW = D DW = D	GW =Ground Water DW = Drinking Water
Fhome No. Phone No. Franklin@americansafety.net 432-557-9868	~	008	S = Froduct SW = Surfac SL = Sludae	r - rrouuct SW = Surface water SL = Sludge
zimmerman@americansafely.net rojest Contar: rojest Contar:	LOG- ATTN BELKY HUNDEI		OW =0cea	OW =Ocean/Sea Water WI = Wipe
Inomas Franklin Samplors's Name Quice Reach	PO Number:	270	0 = 0	0 = Oil WW= Waste Water
	Collection Collection Number of preserved bottles	Π	A = Air	
No. Field ID / Point of Collection	Sample for the provide the providet the pro	147) enoi hoei роshd	Ead	ente
1 GS-1 North	1/21/17 1300 5 7 7 Z A H H	N		CIID
2 " South		4		
3 11 Eert		4		
4 II West	- 1 1315 1. 1)		
5 11 Botton	- 1/21/17 1317 4 1	×	> ->	
9				
T / NFE				
8				
6				
10 /				
Turnaround Time (Business days)	Data Deliverable Information		Notes:	
Same Day TAT	Level II Std QC	Level IV (Full Data Pkg Iraw data)	Emil NSy/HS to:	
Next Day EMERGENCY	Level III Std QC+ Forms TRRP Level IV	evel IV	r reich a curritor & bet	1 and
2 Day EMERGENCY	Level 3 (CLP Forms) UST / RG -411	G -411		
3 Day EMERGENCY	TRRP Checklist			
TAT Starts Day received by Lab, if received by 5:00 pm	md		FED-EX / UPS: Tracking #	
Relinquished by Sampler: D	SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY [Date Time: Received Bv: Received Bv: Received Bv: Relinguished Bv: Relinguished Bv: Relinguished Bv: Received Bv: Receiv	CLUDING COURIER DELIVERY shed Bv: [Date Time:	e: Received Bv:	
Relinquished by:	Val 17 30 1 D. J. C 2 D. Date Time: Received By: Relinquished By:		11530	115:30
Relinquished by:	3 4 Date Time: Received By: Custody Seal #	Seal # Preserved where applicable	4 On Ice Cooler Temp.	Thermo. Corr. Factor
5 totice: Notice: Signature of this document and relinguishment of samples constitute	5 iss a valid nurchasea order fram client commany is Xanon its efficience and extronomentate it a	accine standard forms and acadillons of sou	alice Veneouill for liable only features 1. C	
osses or expenses incurred by the Client if such loses are due to circumstances be all be enforced unless previously negotiated under a fully executed client contract	asses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xonco. A minimum charge of \$75 will be applied to each project. Xenco's tability will be finited to the cost of samples. Any samples no entrol and to endocoed unless previously negotiated under a fully executed client contract.	is a support of the cost of samples of the cost of samples of a samples of the cost of	Temp: 5 U	IR ID:R-8
			CF:(0-6: -0.2°C)	
			(6-23: +0.2°C)	ſ
			L'OITELIEU TEILU.	

Received by OCD: 4/12/2023 2:43:43 PM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: American Safety Services Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 11/22/2017 03:30:00 PM Temperature Measuring device used : R8 Work Order #: 569309 Sample Receipt Checklist #1 *Temperature of cooler(s)? 5.2

-
Yes
Yes
N/A
N/A
N/A
Yes
No
Yes
No
N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by: Shawnee Smith

Date: 11/27/2017

Comments

Checklist reviewed by: Bland thesen Brandi Ritcherson

Date: 11/27/2017



APPENDIX D

Initial and Final C-141

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

Form C-141 Revised August 8, 2011

Oil Conservation Division

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

220 C. St. Empoin Dr. Sonto En NM 97505	th St. Francis Dr. Fe, NM 87505		
	on and Corrective A	ction	
	OPERATOR	Initial Report	Final Repor
Name of Company: COG Operating LLC	Contact:	Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443	
Facility Name: COTTONWOOD 36 STATE SWD #001	Facility Type:	SWD	
Surface Owner: State Mineral Owner		API No. 30-	015-29560
LOCATIO	ON OF RELEASE		
Unit LetterSectionTownshipRangeFeet from theNorK3525S26E1980	th/South Line Feet from the South 1980	East/West Line West	County Eddy
Latitude 32.0844536	Longitude 104.2486	954	
Type of Release:	E OF RELEASE Volume of Release:	Volume Recovered:	
Produced Water	5bbls of Produced Water		duced Water
Source of Release:	Date and Hour of Occurrer	· · · · · · · · · · · · · · · · · · ·	
Injection Well Was Immediate Notice Given?	05-06-2016 11:00at If YES, To Whom?	n 05-06-2010	6 11:00am
Yes No Not Required			
By Whom?	Date and Hour:		
Was a Watercourse Reached?	If YES, Volume Impacting	the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*			
Describe Area Affected and Cleanup Action Taken.* The release caused a 20' X 5' staining on the pad by the wellhead. Cond delineate any possible contamination from the release and we will prese remediation work.			
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedi or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corro the NMOCD marked as "Final ate contamination that pose a th does not relieve the operator o	ective actions for releases which Report" does not relieve the oper- reat to ground water, surface w responsibility for compliance	n may endanger erator of liability rater, human health with any other
Signature: Rabut I Long	<u>OIL CON</u>	SERVATION DIVISI	<u>ON</u>
Printed Name: Robert Grubbs Jr.	Approved by Environmental	Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached	d 🔲
Date: 05-16-2016 Phone: 432-683-7443			
Attach Additional Sheets If Necessary			

Form C-141 Revised April 3, 2017

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.

API No.: 30-015-29560

Volume Recovered:

3 bbls

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company: COG Operating LLC	Contact: Rebecca Haskell		
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-683-7443		
Facility Name: Cottonwood 36 State SWD #001	Facility Type: SWD		

Surface Owner: Federal

Type of Release:

Produced Water

LOCATION OF RELEASE

Mineral Owner: State

_	BOCATION OF RELEASE									
	Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	٦
Ì	К	35	25S	26E	1980	South	1980	West	Eddy	

Latitude 32.0844536 Longitude -104.2486954

NATURE OF RELEASE

Volume of Release:

5 bbls

14	Source of Release:	Date and Hour of Occurrence:	Date and Hour of Discovery:
	Injection Well	5/06/2016; 11:00am	5/06/2016; 11:00am
	Was Immediate Notice Given?	If YES, To Whom?	
	By Whom?	Date and Hour:	
	Was a Watercourse Reached?	If YES, Volume Impacting the Wa	itercourse:
	🗋 Yes 🛛 No	N/A	,
	If a Watercourse was Impacted, Describe Fully.*		
	N/A ·		
	Describe Cause of Problem and Remedial Action Taken.		
	 Job was assigned New Mexico Order #2RP-3695 The release was caused when the threading collar above the master valve Concho sampled the spill and assigned the spill to ASSI who then remed Describe Area Affected and Cleanup Action Taken.* The site was remediated by ASSI in 2017, impacted material was excavate and sent to an NMOCD approved laboratory, which determined Chloride was backfilled and the surface has been restored. 	liated the spill according to the appro ed and sent to R-360 for proper dispo levels were less that the NMOCD reg	exed work plan.
I I	I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release ne public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report defedral, state, or local laws and/or regulations.	otifications and perform corrective as e NMOCD marked as "Final Report" e contamination that pose a threat to	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health
OCD: 4/12/2023 2:43:43 PM	Signature: Reblica Haspell	OIL CONSER	VATION DIVISION
23 2:4		Approved by Environmental Speciali	ist: Buttan Hall
2/20	Title: Senior HSE Coordinator	Approval Date: 4/19/2023	Expiration Date: N/A
: 4/1	E-mail Address: rhaskell@concho.com	Conditions of Approval:	Attached
001	Date: December 7, 2017 Phone:432-683-7443	none	
pr.	Attach Additional Sheets If Necessary		
Received by			
scei			
2			



APPENDIX E

Waste Manifest

American Safety Services, Inc. (Geoscience License #50528) 8715 Andrews Hwy. • Odessa, TX 79765. • T 432.552.7625 • www.americansafety.net

eceived by OCD: 4/12/2023 2:43:43	PM TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST Company Man Contact/Informatio
	(PLEASE PRINT) *REQUIRED INFORMATION* Name Refaccu 114 Stell
autuinwas	GENERATOR NO. 75738
Operator No.	OI 30
Operators Name	Name & No. Cottonwood 31e State SWA
Address	County <u>EOCIU</u> API No. <u>30-015-39.660</u>
City, State, Zip	MON- drilling
Phone No	zigib AL of quidismos y AFE/PO No. 1 stuties designed and shring OF 19A
Oil Based Muds	Inste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards) NON-INJECTABLE WATERS OTHER EXEMPT WASTES (type and generation process of the waste)
Oil Based Cuttings Water Based Muds	Washout Water (Non-Injectable) Completion Fluid/Flow back (Non-Injectable) Papelly dump
Water Based Cuttings	Produced Water (Non-Injectable)
Tank Bottoms	IntERNAL USE ONLY Truck Washout (exempt waste)
Gas Plant Waste	we and the second second during the production of the well of the well of the work over an administration of the
WASTE GENERATION PROCESS:	DRILLING COMPLETION PRODUCTION GATHERING LINES
All non-exempt E&P	NON-EXEMPT E&P Waste/Service Identification and Amount vaste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.
Non-Exempt Other	*please select from Non-Exempt Waste List on back
QUANTITY	B - BARRELS 20 Y - YARDS E - EACH
hereby certify that the above listed material(s), is (a packaged, and is in proper condition for transportation	e) not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law. That each waste has been properly described, classified and naccording to applicable regulation.
Oil field wastes g	enerated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per
load basis only)	berideen ed neo magentoo drogen and head and do neo magentoo drogen and do ne magento and the solation of an off
261.21-261.24, c	r listed hazardous waste as defined by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non- ched. (Check the appropriate items as provided)
MSDS Information	
newsenthat	t (11, 100 to 14, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
(PRINT) AUTHORIZED AGENTS SIGNATURE	LENUY authoritation 9-30-17 SIGNATURE
(Phill) Authorized Adento Jonatione	
Transporter's AST	n Based Duthings
Name Address	Print Name A511 RiverA
Gas plant cooling tower cleaning wastes	Unago Phone No. 432 - 381- 9515 abult antilling based water -
Phone No. $(575)746 - 100$	Truck No. 113.0 abuilt anilling based restant enorthing
hereby certify that the above named material(s) was $6 - 20 - 17$	/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below. R = 26 - 17 $A = 17$
SHIPMENT DATE	DRIVER'S SIGNATURE DRIVER'S
IN: 11:36 UN OUT:	DISPOSAL FACILITY RECEIVING AREA Name/No.
Site Name/	Produced sand Constituents removed from produced water before Constituents removed from produced water before Constituents removed from produced water before
Permit No. Red Bluff Facility/ STF-065 Address 5053 US Highway 285, Orla, TX 79	432-448-4239 belogik citre
NORM READINGS TAKEN? (Circle One	YES NO If YES, was reading > 50 micro roentgens? (circle one) YES NO
Chloride Chemical Analysis (Mg/I)	pH
	TANK BOTTOMS
Feet Ist Gauge	Inches BS&W/BBLS Received BS&W (%)
2nd Gauge	Free Water Total Received
	Constitueds removed rear produces water terrora
I hereby certify that the above load material has b	een (circle one): ACCEPTED DENIED If denied, why?
NAME (PRINT)	DATE TITLE SIGNATURE

VIMENTAL UNITAL VIENTAL	(PLEASE PRINT) *REC	QUIRED INFORMATION* Name Charles 10 / 3 Phone No. 1/32-356-
	GENERATOR	NO. 75738
arator No.	Permit/RRC N	10100
erator No	Lease/Well	some reality reactions - all Argent the free free
erators Name	Name & No.	Carenada 24 state su
lress	County	noixin COOL or Zrannahamen
CE AND THE REAL PROPERTY OF THE PROPERTY OF TH	API No.	1960 10 - 20- 015- 39 060 minutes
, State, Zip	Rig Name & N	10. Marsh MUNG - CHAINING
one No	AFE/PO No.	API No Provide the American Petroleum Institute
EXEMPT E&P W	/aste/Service Identification and Amount (place volume next t	o waste type in barrels or cubic yards)
Based Muds	NON-INJECTABLE WATERS	OTHER EXEMPT WASTES (type and generation process of the waste)
Based Cuttings	Washout Water (Non-Injectable)	Dathichim 2
ater Based Mudsater Based Cuttings	Completion Fluid/Flow back (Non-Injectable) Produced Water (Non-Injectable)	- Delligence por enserio nomen
oduced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	The second s
nk Bottoms	INTERNAL USE ONLY	and and statistic cluthe participal and and a finite
P Contaminated Soil S Plant Waste	Truck Washout (exempt waste)	and to any ito basis is the anexistence attention and the second s
ASTE GENERATION PROCESS:		PRODUCTION GATHERING LINES
	NON-EXEMPT E&P Waste/Service Identification and	Amount
All non-exempt E&P	waste must be analysed and be below the threshold limits for toxicity	
n-Exempt Other		ct from Non-Exempt Waste List on back
ANTITY	B - BARRELS	Y - YARDS E - EACH
261.21-261.24,	or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as tached. (Check the appropriate items as provided) ion RCRA Hazardous Waste Analysis	or waste hazardous by characteristics established in RCRA regulations, 40 s amended. The following documentation demonstrating the waste as nor Other (Provide Description Below)
261.21-261.24, hazardous is att	or listed hazardous waste as defined by 40 CFR, part 261, subpart D, as cached. (Check the appropriate items as provided) ion RCRA Hazardous Waste Analysis	s amended. The following documentation demonstrating the waste as nor Other (Provide Description Below)
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TEXAS NON-HAZARDOUS OILFIELD WASTE MANIFEST

White - ORIGINAL Blue - TRANSPORTER

Yellow - GENERATOR

Version 1

Released to Imaging: 4/19/2023 10:52:53 AM

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Company Man Contact Information

Hall, Brittany, EMNRD

From: Sent:	Tucker, Shelly <stucker@blm.gov> Thursday, December 28, 2017 10:53 AM</stucker@blm.gov>
То:	Ryan Reich
Cc:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; James Amos; Rebecca Haskell; Dakota Neel; Sheldon Hitchcock; Thomas Franklin
Subject:	[External] Re: Remediation Summary and Closure Request 2RP-3695

**** External email. Use caution. ****

BLM accepts your closure request for the Cottonwood 36 State Com 001 * 2RP-3695.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist O&G Spill/Release Coordinator

Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

575.234.5905 - Direct 575.361.0084 - Cellular 575.234.6235 - Emergency Spill Number

stucker@blm.gov

The **<u>BLM acceptance/approval does not</u>** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

On Tue, Dec 12, 2017 at 2:25 PM, Ryan Reich <<u>rreich@americansafety.net</u>> wrote:

Ms. Tucker and Ms. Weaver,

Please find attached the Remediation Summary and Closure Request for 2RP-3695.

Received by OCD: 4/12/2023 2:43:43 PM

Thank you,

Ryan Reich

Environmental Project Manager

Mobile 432.557.7963

Office 432.552.7625



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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:
SOLARIS WATER MIDSTREAM, LLC	371643
907 Tradewinds Blvd, Suite B	Action Number:
Midland, TX 79706	206986
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
bhall	None	4/19/2023

CONDITIONS

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Action 206986