



2057 Commerce Drive
Midland, TX 79703

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www.trcsolutions.com

September 7, 2017

Mike Bratcher
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

Amber Groves
Hobbs Field Office
New Mexico State Land Office
2827 N. Dal Paso St., Suite 117
Hobbs, New Mexico 88240

Re: Soil Investigation Summary and Proposed Remediation Workplan
SRO State Com #064H (2RP-3974)
GPS: N 32.0576019° W 104.0815811°
Unit Letter "E", Section 10, Township 26 South, Range 28 East
Eddy County, New Mexico

Dear Mr. Bratcher and Ms. Groves,

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this Soil Investigation Summary and Proposed Remediation Workplan (Workplan) for the SRO State Com #064H Release Site (Release Site). The purpose of this Workplan is to propose remediation activities designed to advance the SRO State Com #064H Release Site toward a New Mexico Oil Conservation Division (NMOCD) approved Site Closure Status. The legal description of the Release Site is Unit Letter "E", Section 10, Township 26 South, Range 28 East, in Eddy County, New Mexico. The GPS coordinates for the site are N 32.0576019° W 104.0815811°. The subject property is administered by the New Mexico State Land Office (NMSLO). A Site Location Map and Site Map are provided as Figure 1 and Figure 2, respectively.

On October 28, 2016, COG discovered a produced water release from a quarter (1/4) inch nipple. The release measured approximately 2,605 square feet in area. On October 29, 2016, COG notified the NMOCD and NMSLO of the release via email and submitted a Release Notification and Corrective Action (Form C-141) to the NMOCD on November 1, 2016. During initial response activities, COG replaced the damaged quarter (1/4) inch nipple. Approximately thirty (30) barrels of fluid was released from the nipple, with twenty-five (25) barrels recovered. The Form C-141 is attached to this report.

A groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) identified two (2) registered water wells in Section 10, Township 26 South, Range 28 East. However, information on the wells listed installation depths and dates for the wells with no reference to the observed depth of groundwater. A reference map utilized by the NMOCD Hobbs District Office indicates groundwater should be encountered at approximately seventy-five (75) feet to eighty (80) feet below ground surface (bgs). Based on the NMOCD site classification system, ten (10) points will be assigned to the subject area ranking as a result of this criterion.

No water wells were observed within one-thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

No surface water was observed within one-thousand (1,000) feet of the release. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion.

Based on the NMOCD Site Classification criteria, the Release Site soil remediation levels are 10 milligrams per Kilogram (mg/Kg) for benzene, 50 mg/Kg for benzene, toluene, ethylbenzene and xylenes (BTEX), and one thousand (1,000) mg/Kg for total petroleum hydrocarbons (TPH). Per NMOCD request, chloride remediation levels for the Release Site will be 600 mg/Kg.

On January 11, 2017, a COG representative collected thirty-two (32) delineation soil samples from the impacted area (see attached Figure 2 and Table 1 for sample locations and analytical results). The soil samples were submitted to Xenco Laboratories in Midland, Texas for determination of concentration of chloride using Method 300/300.1. Chloride concentrations ranged from 8.35 mg/Kg for soil sample T3-2' to 14,000 mg/Kg for soil sample T2-3'. A review of laboratory analytical results indicated chloride concentrations were below NMOCD regulatory guidelines for the submitted soil samples, with the exception of soil samples T1-1' (6,720 mg/Kg), T2-1' (4,210 mg/Kg), T2-2' (3,050 mg/Kg), T2-3' (14,000 mg/Kg), and T3-1' (4,890 mg/Kg).

Based on the analytical results of the soil samples collected on January 11, 2017, COG proposes the following field activities designed to remediate the SRO State Com #064H:

- Utilizing a backhoe, excavate the Release Site to a depth of approximately three and one half (3.5) feet below ground surface (bgs) in the area represented by soil sample T2 and to approximately one and one half (1.5) feet bgs in the areas represented by soil samples T1 and T3. The excavated soils will be stockpiled on a plastic liner adjacent to the excavation pending transportation to a NMOCD approved disposal facility.
- Collect an appropriate number of excavation floor soil samples, to be collected at approximately every fifty (50) feet, and submit the soil samples to the laboratory for determination of concentrations of BTEX and TPH. In addition, a minimum of four (4) soil samples to the north, south, east, and west of the excavated area will be collected to confirm horizontal delineation of the impacted soil and submitted for BTEX, TPH, and chloride analysis.
- On receipt of favorable analytical results (below the NMOCD regulatory guidelines referenced above), the excavation will be backfilled with locally purchased non-impacted "like" soil.
- The excavated soil will be transported under manifest to an NMOCD approved disposal facility.

- Prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and NMSLO.

COG is prepared to begin the activities outlined in this Proposed Remediation Workplan on NMOCD and NMSLO approval.

If you have any questions, or if additional information is required, please feel free to call me at 432-520-7720 (office) or 432-664-6699 (cell).

Thank you,



Nikki Green
Project Manager
TRC Environmental Corporation



Jeffrey Kindley, PG
Senior Project Manager
TRC Environmental Corporation

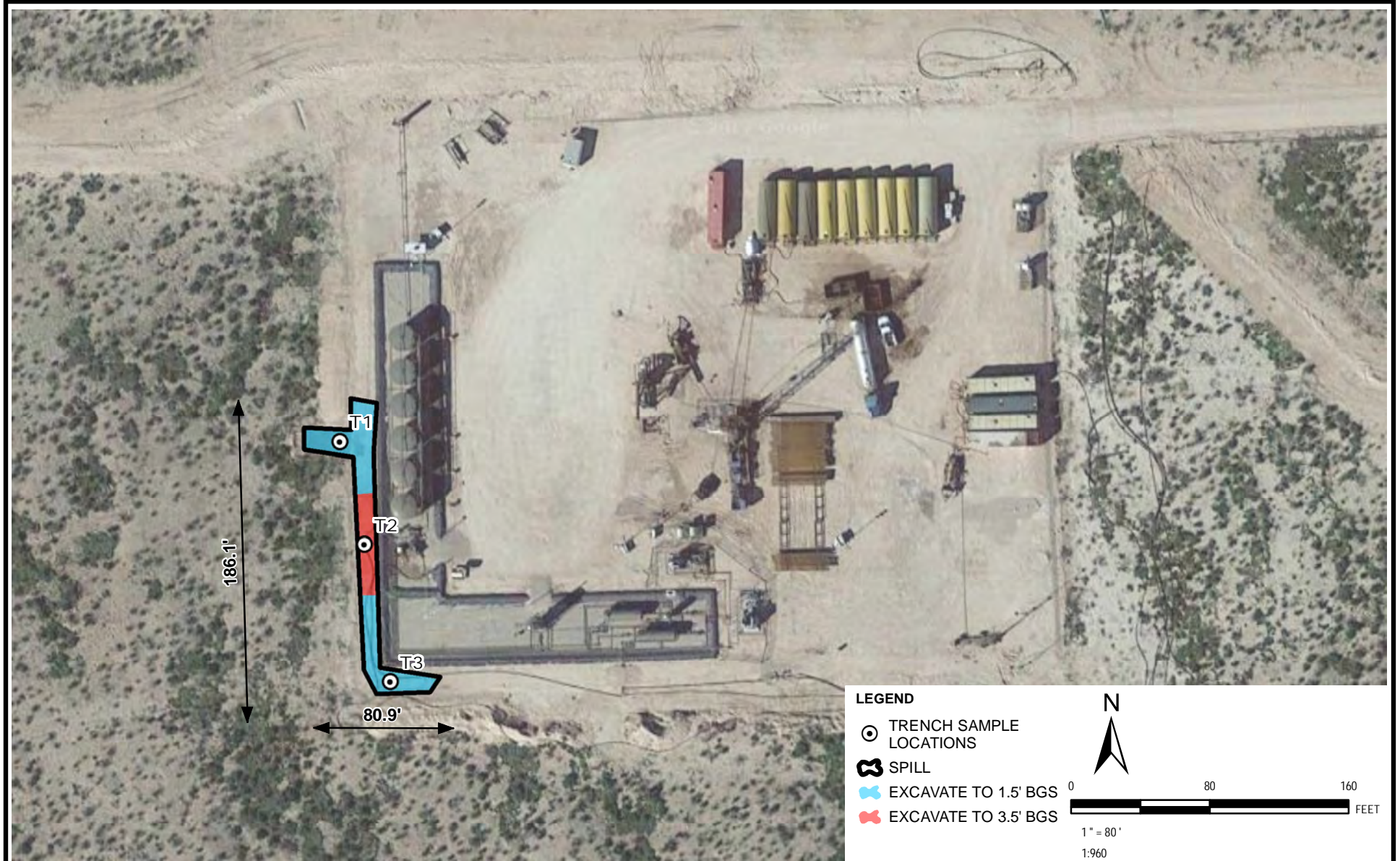
Attachments:

Figure 1 - Site Location Map
Figure 2 - Site Map
Table 1 - Concentration of Chloride in Soil
Laboratory Analytical Results
Release Notification and Corrective Action (Form C-141)

cc: Rebecca Haskell
COG Operating, LLC
600 W. Illinois Avenue
Midland, Texas 79701

File

SW1/4 NW1/4 SEC 10 T26S R28E



2075 Commerce Drive
Midland, TX 79703
Phone: 432.520.770

TRC - GIS

TITLE:

FIGURE 2 SITE MAP

PROJECT:

**SRO STATE COM #064H
EDDY COUNTY, NEW MEXICO
COG OPERATING, LLC.**

DRAWN BY: MLOVELACE

CHECKED BY: NGREEN

APPROVED BY: NGREEN

DATE: AUGUST 2017

PROJ. NO.: 279785

GPS: LAT. N 32.0576019, LONG. W 104.0815811

SW1/4 NW1/4 SEC 10 T26S R28E

TABLE 1

CONCENTRATION OF CHLORIDE IN SOIL

COG Operating LLC
SRO State Com #064H
EDDY COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	SOIL STATUS	E 300.1
			CHLORIDE
NMOCD Site Classification Criteria			600
T1-1'	1/11/2017	Trench	6,720
T1-2'	1/11/2017	Trench	46.9
T1-3'	1/11/2017	Trench	39.7
T1-4'	1/11/2017	Trench	56.4
T1-5'	1/11/2017	Trench	44.6
T1-6'	1/11/2017	Trench	123
T1-8'	1/11/2017	Trench	177
T1-10'	1/11/2017	Trench	160
T1-12'	1/11/2017	Trench	16.6
T1-14'	1/11/2017	Trench	55.2
T1-15.5'	1/11/2017	Trench	164
T2-1'	1/11/2017	Trench	4,210
T2-2'	1/11/2017	Trench	3,050
T2-3'	1/11/2017	Trench	14,000
T2-4'	1/11/2017	Trench	44.7
T2-5'	1/11/2017	Trench	44.5
T2-6'	1/11/2017	Trench	62.1
T2-8'	1/11/2017	Trench	75.2
T2-10'	1/11/2017	Trench	59.7
T2-12'	1/11/2017	Trench	80.3
T2-14'	1/11/2017	Trench	176
T2-16'	1/11/2017	Trench	335
T3-1'	1/11/2017	Trench	4,890
T3-2'	1/11/2017	Trench	8.35
T3-3'	1/11/2017	Trench	10.5
T3-4'	1/11/2017	Trench	55.9
T3-5'	1/11/2017	Trench	34.7
T3-6'	1/11/2017	Trench	43.9
T3-8'	1/11/2017	Trench	133
T3-12'	1/11/2017	Trench	62.6
T3-14'	1/11/2017	Trench	225
T3-16'	1/11/2017	Trench	309



Certificate of Analysis Summary 544227

COG Operating LLC, Artesia, NM

Project Name: SRO State Com #064H



Project Id:

Contact: Dakota Neel

Project Location: 32.0576019,-104.0815811

Date Received in Lab: Mon Jan-16-17 12:00 pm

Report Date: 23-JAN-17

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	544227-001	544227-002	544227-003	544227-004	544227-005	544227-006
	<i>Field Id:</i>	T1 - 1'	T1 - 2'	T1 - 3'	T1 - 4'	T1 - 5'	T1 - 6'
	<i>Depth:</i>	1- ft	5- ft	3- ft	4- ft	5- ft	6- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00
	<i>Analyzed:</i>	Jan-19-17 16:37	Jan-19-17 17:10	Jan-19-17 17:21	Jan-19-17 17:32	Jan-19-17 17:43	Jan-19-17 17:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6720 50.0	46.9 5.00	39.7 5.00	56.4 5.00	44.6 25.0	123 25.0

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

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

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 544227

COG Operating LLC, Artesia, NM

Project Name: SRO State Com #064H



Project Id:

Contact: Dakota Neel

Project Location: 32.0576019,-104.0815811

Date Received in Lab: Mon Jan-16-17 12:00 pm

Report Date: 23-JAN-17

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	544227-007	544227-008	544227-009	544227-010	544227-011	544227-012
	<i>Field Id:</i>	T1 - 8'	T1 - 10'	T1 - 12'	T1 - 14'	T1 - 15.5'	T2 - 1'
	<i>Depth:</i>	8- ft	10- ft	12- ft	14- ft	15.5- ft	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:00	Jan-11-17 10:45
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00
	<i>Analyzed:</i>	Jan-19-17 18:05	Jan-19-17 18:17	Jan-20-17 14:42	Jan-19-17 19:01	Jan-19-17 19:12	Jan-19-17 19:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		177 50.0	160 50.0	16.6 5.00	55.2 25.0	164 25.0	4210 25.0

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 544227

COG Operating LLC, Artesia, NM

Project Name: SRO State Com #064H



Project Id:

Contact: Dakota Neel

Project Location: 32.0576019,-104.0815811

Date Received in Lab: Mon Jan-16-17 12:00 pm

Report Date: 23-JAN-17

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	544227-013	544227-014	544227-015	544227-016	544227-017	544227-018
	<i>Field Id:</i>	T2 - 2'	T2 - 3'	T2 - 4'	T2 - 5'	T2 - 6'	T2 - 8'
	<i>Depth:</i>	2- ft	3- ft	4- ft	5- ft	6- ft	8- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 10:45
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00	Jan-19-17 11:00
	<i>Analyzed:</i>	Jan-19-17 19:56	Jan-19-17 20:07	Jan-19-17 20:18	Jan-19-17 20:29	Jan-19-17 20:40	Jan-19-17 20:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3050 25.0	14000 100	44.7 25.0	44.5 25.0	62.1 25.0	75.2 25.0

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Kelsey Brooks
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COG Operating LLC, Artesia, NM

Project Name: SRO State Com #064H



Project Id:

Contact: Dakota Neel

Project Location: 32.0576019,-104.0815811

Date Received in Lab: Mon Jan-16-17 12:00 pm

Report Date: 23-JAN-17

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	544227-019	544227-020	544227-021	544227-022	544227-023	544227-024
	<i>Field Id:</i>	T2 - 10'	T2 - 12'	T2 - 14'	T2 - 16'	T3 - 1'	T3 - 2'
	<i>Depth:</i>	10- ft	12- ft	14- ft	16- ft	1- ft	2- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 10:45	Jan-11-17 11:30	Jan-11-17 11:30
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00
	<i>Analyzed:</i>	Jan-20-17 12:07	Jan-20-17 12:14	Jan-20-17 12:21	Jan-20-17 12:28	Jan-20-17 12:35	Jan-20-17 12:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		59.7 25.0	80.3 5.00	176 25.0	335 25.0	4890 50.0	8.35 5.00

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Kelsey Brooks
Project Manager



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COG Operating LLC, Artesia, NM

Project Name: SRO State Com #064H



Project Id:

Contact: Dakota Neel

Project Location: 32.0576019,-104.0815811

Date Received in Lab: Mon Jan-16-17 12:00 pm

Report Date: 23-JAN-17

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	544227-025	544227-026	544227-027	544227-028	544227-029	544227-030
	<i>Field Id:</i>	T3 - 3'	T3 - 4'	T3 - 5'	T3 - 6'	T3 - 8'	T3 - 12'
	<i>Depth:</i>	3- ft	4- ft	5- ft	6- ft	8- ft	12- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Jan-11-17 11:30	Jan-11-17 11:30	Jan-11-17 11:30	Jan-11-17 11:30	Jan-11-17 11:30	Jan-11-17 11:30
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00	Jan-20-17 09:00
	<i>Analyzed:</i>	Jan-20-17 12:49	Jan-20-17 13:25	Jan-20-17 13:32	Jan-20-17 13:39	Jan-20-17 13:46	Jan-20-17 13:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		10.5 5.00	55.9 25.0	34.7 25.0	43.9 25.0	133 25.0	62.6 25.0

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Kelsey Brooks
Project Manager



Certificate of Analysis Summary 544227

COG Operating LLC, Artesia, NM

Project Name: SRO State Com #064H



Project Id:

Contact: Dakota Neel

Project Location: 32.0576019,-104.0815811

Date Received in Lab: Mon Jan-16-17 12:00 pm

Report Date: 23-JAN-17

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	544227-031	544227-032				
	<i>Field Id:</i>	T3 - 14'	T3 - 16'				
	<i>Depth:</i>	14- ft	16- ft				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Jan-11-17 11:30	Jan-11-17 11:30				
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	Jan-20-17 09:00	Jan-20-17 09:00				
	<i>Analyzed:</i>	Jan-20-17 14:00	Jan-20-17 14:07				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Chloride		225 25.0	309 25.0				

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Kelsey Brooks
Project Manager

Analytical Report 544227

**for
COG Operating LLC**

Project Manager: Dakota Neel

SRO State Com #064H

23-JAN-17

Collected By: Dakota Neel



1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)
Xenco-San Antonio: Texas (T104704534)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



23-JAN-17

Project Manager: **Dakota Neel**

COG Operating LLC

2407 Pecos Avenue

Artesia, NM 88210

Reference: XENCO Report No(s): **544227**

SRO State Com #064H

Project Address: 32.0576019,-104.0815811

Dakota Neel:

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) 544227. 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. 544227 will be filed for 60 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,

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 - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T1 - 1'	S	01-11-17 10:00	1 ft	544227-001
T1 - 2'	S	01-11-17 10:00	5 ft	544227-002
T1 - 3'	S	01-11-17 10:00	3 ft	544227-003
T1 - 4'	S	01-11-17 10:00	4 ft	544227-004
T1 - 5'	S	01-11-17 10:00	5 ft	544227-005
T1 - 6'	S	01-11-17 10:00	6 ft	544227-006
T1 - 8'	S	01-11-17 10:00	8 ft	544227-007
T1 - 10'	S	01-11-17 10:00	10 ft	544227-008
T1 - 12'	S	01-11-17 10:00	12 ft	544227-009
T1 - 14'	S	01-11-17 10:00	14 ft	544227-010
T1 - 15.5'	S	01-11-17 10:00	15.5 ft	544227-011
T2 - 1'	S	01-11-17 10:45	1 ft	544227-012
T2 - 2'	S	01-11-17 10:45	2 ft	544227-013
T2 - 3'	S	01-11-17 10:45	3 ft	544227-014
T2 - 4'	S	01-11-17 10:45	4 ft	544227-015
T2 - 5'	S	01-11-17 10:45	5 ft	544227-016
T2 - 6'	S	01-11-17 10:45	6 ft	544227-017
T2 - 8'	S	01-11-17 10:45	8 ft	544227-018
T2 - 10'	S	01-11-17 10:45	10 ft	544227-019
T2 - 12'	S	01-11-17 10:45	12 ft	544227-020
T2 - 14'	S	01-11-17 10:45	14 ft	544227-021
T2 - 16'	S	01-11-17 10:45	16 ft	544227-022
T3 - 1'	S	01-11-17 11:30	1 ft	544227-023
T3 - 2'	S	01-11-17 11:30	2 ft	544227-024
T3 - 3'	S	01-11-17 11:30	3 ft	544227-025
T3 - 4'	S	01-11-17 11:30	4 ft	544227-026
T3 - 5'	S	01-11-17 11:30	5 ft	544227-027
T3 - 6'	S	01-11-17 11:30	6 ft	544227-028
T3 - 8'	S	01-11-17 11:30	8 ft	544227-029
T3 - 12'	S	01-11-17 11:30	12 ft	544227-030
T3 - 14'	S	01-11-17 11:30	14 ft	544227-031
T3 - 16'	S	01-11-17 11:30	16 ft	544227-032



CASE NARRATIVE



Client Name: COG Operating LLC

Project Name: SRO State Com #064H

Project ID:

Work Order Number(s): 544227

Report Date: 23-JAN-17

Date Received: 01/16/2017

Sample receipt non conformances and comments:

please email results to:

rgrubbs@concho.com rhaskell@concho.com alieb@concho.com

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T1 - 1'
Lab Sample Id: 544227-001

Matrix: Soil
Date Collected: 01.11.17 10.00

Date Received: 01.16.17 12.00
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6720	50.0	mg/kg	01.19.17 16.37		10



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T1 - 2'
Lab Sample Id: 544227-002

Matrix: Soil
Date Collected: 01.11.17 10.00

Date Received: 01.16.17 12.00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.9	5.00	mg/kg	01.19.17 17.10		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T1 - 3'
Lab Sample Id: 544227-003

Matrix: Soil
Date Collected: 01.11.17 10.00

Date Received: 01.16.17 12.00
Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.7	5.00	mg/kg	01.19.17 17.21		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T1 - 4'
Lab Sample Id: 544227-004

Matrix: Soil
Date Collected: 01.11.17 10.00

Date Received: 01.16.17 12.00
Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.4	5.00	mg/kg	01.19.17 17.32		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T1 - 5'** Matrix: **Soil** Date Received: 01.16.17 12.00
Lab Sample Id: 544227-005 Date Collected: 01.11.17 10.00 Sample Depth: 5 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.6	25.0	mg/kg	01.19.17 17.43		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T1 - 6'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-006 Date Collected: 01.11.17 10.00 Sample Depth: 6 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	123	25.0	mg/kg	01.19.17 17.54		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T1 - 8'
Lab Sample Id: 544227-007

Matrix: Soil
Date Collected: 01.11.17 10.00

Date Received: 01.16.17 12.00
Sample Depth: 8 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	177	50.0	mg/kg	01.19.17 18.05		10



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: **T1 - 10'**
Lab Sample Id: 544227-008

Matrix: Soil
Date Collected: 01.11.17 10.00

Date Received: 01.16.17 12.00
Sample Depth: 10 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	160	50.0	mg/kg	01.19.17 18.17		10



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T1 - 12'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-009 Date Collected: 01.11.17 10.00 Sample Depth: 12 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.6	5.00	mg/kg	01.20.17 14.42		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T1 - 14'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-010 Date Collected: 01.11.17 10.00 Sample Depth: 14 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.2	25.0	mg/kg	01.19.17 19.01		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: **T1 - 15.5'**

Matrix: Soil

Date Received: 01.16.17 12.00

Lab Sample Id: 544227-011

Date Collected: 01.11.17 10.00

Sample Depth: 15.5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	164	25.0	mg/kg	01.19.17 19.12		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: T2 - 1' Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-012 Date Collected: 01.11.17 10.45 Sample Depth: 1 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4210	25.0	mg/kg	01.19.17 19.45		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: T2 - 2' Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-013 Date Collected: 01.11.17 10.45 Sample Depth: 2 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3050	25.0	mg/kg	01.19.17 19.56		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: T2 - 3' Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-014 Date Collected: 01.11.17 10.45 Sample Depth: 3 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14000	100	mg/kg	01.19.17 20.07		20



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: T2 - 4' Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-015 Date Collected: 01.11.17 10.45 Sample Depth: 4 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.7	25.0	mg/kg	01.19.17 20.18		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T2 - 5'
Lab Sample Id: 544227-016

Matrix: Soil
Date Collected: 01.11.17 10.45

Date Received: 01.16.17 12.00
Sample Depth: 5 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.19.17 11.00

Basis: Wet Weight

Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.5	25.0	mg/kg	01.19.17 20.29		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T2 - 6'** Matrix: **Soil** Date Received: 01.16.17 12.00
Lab Sample Id: 544227-017 Date Collected: 01.11.17 10.45 Sample Depth: 6 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: **MNR** % Moisture:
Analyst: **MNR** Date Prep: 01.19.17 11.00 Basis: **Wet Weight**
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.1	25.0	mg/kg	01.19.17 20.40		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: T2 - 8' Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-018 Date Collected: 01.11.17 10.45 Sample Depth: 8 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.19.17 11.00 Basis: Wet Weight
Seq Number: 3008055

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	75.2	25.0	mg/kg	01.19.17 20.51		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: **T2 - 10'**
Lab Sample Id: 544227-019

Matrix: Soil
Date Collected: 01.11.17 10.45

Date Received: 01.16.17 12.00
Sample Depth: 10 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.20.17 09.00

Basis: Wet Weight

Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.7	25.0	mg/kg	01.20.17 12.07		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T2 - 12'
Lab Sample Id: 544227-020

Matrix: Soil
Date Collected: 01.11.17 10.45

Date Received: 01.16.17 12.00
Sample Depth: 12 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.20.17 09.00

Basis: Wet Weight

Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	80.3	5.00	mg/kg	01.20.17 12.14		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T2 - 14'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-021 Date Collected: 01.11.17 10.45 Sample Depth: 14 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	176	25.0	mg/kg	01.20.17 12.21		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T2 - 16'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-022 Date Collected: 01.11.17 10.45 Sample Depth: 16 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	335	25.0	mg/kg	01.20.17 12.28		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T3 - 1'
Lab Sample Id: 544227-023

Matrix: Soil
Date Collected: 01.11.17 11.30

Date Received: 01.16.17 12.00
Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.20.17 09.00

Basis: Wet Weight

Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4890	50.0	mg/kg	01.20.17 12.35		10



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: T3 - 2' Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-024 Date Collected: 01.11.17 11.30 Sample Depth: 2 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.35	5.00	mg/kg	01.20.17 12.42		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T3 - 3'
Lab Sample Id: 544227-025

Matrix: Soil
Date Collected: 01.11.17 11.30

Date Received: 01.16.17 12.00
Sample Depth: 3 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.20.17 09.00

Basis: Wet Weight

Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.5	5.00	mg/kg	01.20.17 12.49		1



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM

SRO State Com #064H

Sample Id: T3 - 4'
Lab Sample Id: 544227-026

Matrix: Soil
Date Collected: 01.11.17 11.30

Date Received: 01.16.17 12.00
Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: MNR

% Moisture:

Analyst: MNR

Date Prep: 01.20.17 09.00

Basis: Wet Weight

Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.9	25.0	mg/kg	01.20.17 13.25		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T3 - 5'** Matrix: **Soil** Date Received: 01.16.17 12.00
Lab Sample Id: 544227-027 Date Collected: 01.11.17 11.30 Sample Depth: 5 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.7	25.0	mg/kg	01.20.17 13.32		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T3 - 6'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-028 Date Collected: 01.11.17 11.30 Sample Depth: 6 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.9	25.0	mg/kg	01.20.17 13.39		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T3 - 8'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-029 Date Collected: 01.11.17 11.30 Sample Depth: 8 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	133	25.0	mg/kg	01.20.17 13.46		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T3 - 12'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-030 Date Collected: 01.11.17 11.30 Sample Depth: 12 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.6	25.0	mg/kg	01.20.17 13.53		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T3 - 14'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-031 Date Collected: 01.11.17 11.30 Sample Depth: 14 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	225	25.0	mg/kg	01.20.17 14.00		5



Certificate of Analytical Results 544227



COG Operating LLC, Artesia, NM SRO State Com #064H

Sample Id: **T3 - 16'** Matrix: Soil Date Received: 01.16.17 12.00
Lab Sample Id: 544227-032 Date Collected: 01.11.17 11.30 Sample Depth: 16 ft
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: MNR % Moisture:
Analyst: MNR Date Prep: 01.20.17 09.00 Basis: Wet Weight
Seq Number: 3008054

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	309	25.0	mg/kg	01.20.17 14.07		5

- 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 **SQL** Method Quantitation Limit **LOQ** 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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(602) 437-0330	

COG Operating LLC
SRO State Com #064H
Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3008055

Matrix: Solid

Prep Method: E300P

MB Sample Id: 718772-1-BLK

LCS Sample Id: 718772-1-BKS

Date Prep: 01.19.17

LCSD Sample Id: 718772-1-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	251	100	255	102	90-110	2	20	mg/kg	01.19.17 14:50	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3008054

Matrix: Solid

Prep Method: E300P

MB Sample Id: 718770-1-BLK

LCS Sample Id: 718770-1-BKS

Date Prep: 01.20.17

LCSD Sample Id: 718770-1-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	241	96	246	98	90-110	2	20	mg/kg	01.20.17 10:28	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3008055

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 544226-032

MS Sample Id: 544226-032 S

Date Prep: 01.19.17

MSD Sample Id: 544226-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	526	250	768	97	774	99	90-110	1	20	mg/kg	01.19.17 16:04	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3008055

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 544227-009

MS Sample Id: 544227-009 S

Date Prep: 01.19.17

MSD Sample Id: 544227-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	16.6	250	279	105	263	99	90-110	6	20	mg/kg	01.20.17 14:49	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3008054

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 544227-025

MS Sample Id: 544227-025 S

Date Prep: 01.20.17

MSD Sample Id: 544227-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.5	250	247	95	248	95	90-110	0	20	mg/kg	01.20.17 12:56	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3008054

Matrix: Soil

Prep Method: E300P

Parent Sample Id: 544522-001

MS Sample Id: 544522-001 S

Date Prep: 01.20.17

MSD Sample Id: 544522-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7280	250	7320	16	7320	16	90-110	0	20	mg/kg	01.20.17 10:50	X



Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)

CHAIN OF CUSTODY

Page 1 OF 3

San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)

www.xenco.com

Phoenix, Arizona (480-355-0900)

Client / Reporting Information		Project Information		Xenco Quote #		Xenco Job #		Matrix Codes									
Company Name / Branch: COG Operating LLC		Project Name/Number: SFO State Com #064H						W = Water S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water WI = Wipe O = Oil WW = Waste Water A = Air									
Company Address: 2407 Pecos Avenue, Artesia NM, 88210		Project Location: 32.0576019, -104.0815811															
Email: dneel2@concho.com Phone No: 432-215-2783		Invoice To: COG Operating LLC Robert McNeill 600 W Illinois, Midland TX 79701 (432) 221-0388															
Project Contact: Dakota Neel		PO Number:															
Sampler's Name Dakota Neel																	
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chloride	Field Comments	
1	T1	1'	1/11/2017	10:00 AM	S										X		
2	T1	2'	1/11/2017	10:00 AM	S										X		
3	T1	3'	1/11/2017	10:00 AM	S										X		
4	T1	4'	1/11/2017	10:00 AM	S										X		
5	T1	5'	1/11/2017	10:00 AM	S										X		
6	T1	6'	1/11/2017	10:00 AM	S										X		
7	T1	8'	1/11/2017	10:00 AM	S										X		
8	T1	10'	1/11/2017	10:00 AM	S										X		
9	T1	12'	1/11/2017	10:00 AM	S										X		
10	T1	14'	1/11/2017	10:00 AM	S										X		
11	T1	15.5'	1/11/2017	10:00 AM	S										X		
Turnaround Time (Business days)																Notes:	
<input type="checkbox"/> Same Day TAT		<input type="checkbox"/> 5 Day TAT														Please Email Results to:	
<input type="checkbox"/> Next Day EMERGENCY		<input type="checkbox"/> 7 Day TAT														rgubbs@concho.com; rhaskell@concho.com; alieb@concho.com;	
<input type="checkbox"/> 2 Day EMERGENCY		<input type="checkbox"/> Contract TAT														dneel2@concho.com	
<input type="checkbox"/> 3 Day EMERGENCY																	
TAT Starts Day received by Lab, if received by 5:00 pm																FED-EX / UPS: Tracking #	
Relinquished by Sampler: 1 DAKOTA NEEL		Date Time: 1-16-17 12:00		Received By: 1 [Signature]		Relinquished By: 2		Date Time:		Received By: 3 [Signature]		Relinquished By: 4		Custody Seal #		Preserved where applicable	
Relinquished by: 3		Date Time:		Received By: 5		Relinquished By: 6		Date Time:		Received By: 7		Relinquished By: 8		Cooler Temp: IR ID: R-8		Temp: 4.3	
Relinquished by: 5		Date Time:		Received By: 9		Relinquished By: 10		Date Time:		Received By: 11		Relinquished By: 12		Cooler Temp: 4.4		Corrected Temp: 4.4	

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco b terms will be enforced unless previously negotiated under a fully executed client contract.

Setting the Standard since 1990
Stafford, Texas (281-240-4200)
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CHAIN OF CUSTODY

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Setting the Standard since 1990
Stafford, Texas (281-240-4200)

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Phoenix, Arizona (480-355-0900)

Xenco Quote #

Xenco Job #

Letta

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes				
Company Name / Branch: COG Operating LLC				Project Name/Number: SRO State Com #064H								W = Water S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge OW = Ocean/Sea Water WI = Wipe O = Oil WW = Waste Water A = Air				
Company Address: 2407 Pecos Avenue, Artesia NM, 88210				Project Location: 32.0576019, -104.0815811												
Email: dhneil2@concho.com				Phone No: 432-215-2783				Invoice To: COG Operating LLC Robert McNeill 600 W Illinois, Midland TX 79701 (432) 221-0388								
Project Contact: Dakota Neel				PO Number: (432) 221-0388												
Sampler's Name Dakota Neel																
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chloride	Field Comments
1	T2	1'	1/11/2017	10:45 AM	S										X	
2	T2	2'	1/11/2017	10:45 AM	S										X	
3	T2	3'	1/11/2017	10:45 AM	S										X	
4	T2	4'	1/11/2017	10:45 AM	S										X	
5	T2	5'	1/11/2017	10:45 AM	S										X	
6	T2	6'	1/11/2017	10:45 AM	S										X	
7	T2	8'	1/11/2017	10:45 AM	S										X	
8	T2	10'	1/11/2017	10:45 AM	S										X	
9	T2	12'	1/11/2017	10:45 AM	S										X	
10	T2	14'	1/11/2017	10:45 AM	S										X	
11	T2	16'	1/11/2017	10:45 AM	S										X	
Turnaround Time (Business days)				Data Deliverable Information				Notes:				Please Email Results to: rgrubbs@concho.com; mskell@concho.com; alleb@concho.com; dhneil2@concho.com				
<input type="checkbox"/> Same Day TAT				<input type="checkbox"/> 5 Day TAT				<input type="checkbox"/> Level II Std QC				<input type="checkbox"/> Level IV (Full Data Pkg /raw data)				
<input type="checkbox"/> Next Day EMERGENCY				<input type="checkbox"/> 7 Day TAT				<input type="checkbox"/> Level III Std QC+ Forms				<input type="checkbox"/> TRRP Level IV				
<input type="checkbox"/> 2 Day EMERGENCY				<input type="checkbox"/> Contract TAT				<input type="checkbox"/> Level 3 (CLP Forms)				<input type="checkbox"/> UST / RG -411				
<input type="checkbox"/> 3 Day EMERGENCY				<input type="checkbox"/> TRRP Checklist												
TAT Starts Day received by Lab, if received by 5:00 pm																
Relinquished by Sampler:				SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY												
1 Relinquished by:				Date Time:				Received By:				Date Time:				
3 Relinquished by:				Date Time:				Received By:				Date Time:				
5 Relinquished by:				Date Time:				Received By:				Date Time:				
On Ice				Cooler Temp				Thermometer								
Temp:				IR ID:R-8												

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CHAIN OF CUSTODY

Page 3 Of 3

San Antonio, Texas (210-509-3334)

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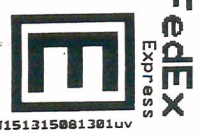
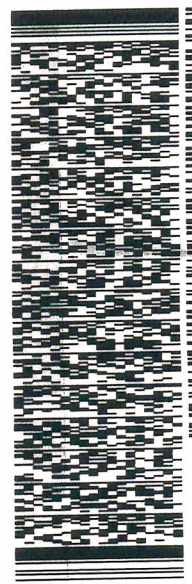
[illegible]

ORIGIN ID: H08A (5/5) 392-/550
** MAIL SERVICES ETC, LLC
4008 N GRIMES
HOBBBS, NM 88240
UNITED STATES US
SHIP DATE: 16JAN17
ACTWGT: 70.0 LB MAN
CNO: 0909328/CAFE2915
DIMS: 24x16x15 IN
BILL RECIPIENT

TO XENCO LABORATORIES
XENCO LABORATORIES
1211 W FLORIDA AVE

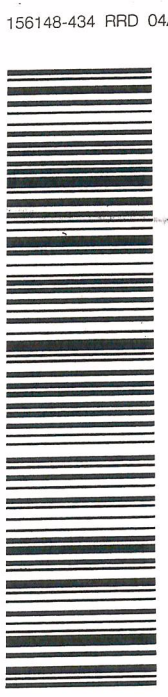
MIDLAND TX 79701

(432) 563-1800 REF: DEPT: PO:



TRK# 6606 3913 4904 TUE - 17 JAN 10:30A
0201 PRIORITY OVERNIGHT

41 MAFA 79701
TX-US LBB



156148-434 RRD 04/16

538C1/1997/3298



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: COG Operating LLC

Date/ Time Received: 01/16/2017 12:00:00 PM

Work Order #: 544227

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	4.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	N/A
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	N/A
#7 *Custody Seals Signed and dated?	N/A
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Jessica Kramer

Jessica Kramer

Date: 01/17/2017

Checklist reviewed by:

Kelsey Brooks

Kelsey Brooks

Date: 01/18/2017

NM OIL CONSERVATION
ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

NOV 01 2016

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

0AB1630657394

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC 229137	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	SRO STATE COM #064H	Facility Type:	Tank Battery

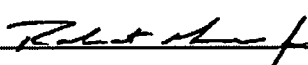
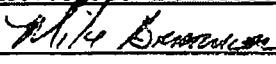
Surface Owner:	State	Mineral Owner:	API No.	30-015-42130
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	10	26S	28E	2450'	North	710'	West	Eddy

Latitude 32.0576019 Longitude 104.0815811

NATURE OF RELEASE

Type of Release:	Produced Water	Volume of Release:	30bbls	Volume Recovered:	25bbls
Source of Release:	1/4 Nipple	Date and Hour of Occurrence:	10-28-2016 12:15 pm	Date and Hour of Discovery:	10-28-2016 12:15 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - NMOCD / Amber Groves - SLO			
By Whom?	Robert Grubbs Jr.	Date and Hour:	Sat 10/29/2016 11:51 AM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.* The release was caused by a 1/4" nipple that broke off causing the spill. Replaced the 1/4 nipple with a new one.					
Describe Area Affected and Cleanup Action Taken.* This release occurred in the pasture an area of 8X50 against the tank batteries berm. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature:					
Printed Name:	Robert Grubbs Jr.	OIL CONSERVATION DIVISION Signed By 			
Title:	Senior Environmental Coordinator	Approved by Environmental Specialist:			
E-mail Address:	rgrubbs@concho.com	Approval Date:	11/11/16	Expiration Date:	N/A
Date:	November 1, 2016	Phone:	432-683-7443	Conditions of Approval:	→
				Attached	<input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

2RP-3974

Bratcher, Mike, EMNRD

From: Robert Grubbs <RGrubbs@concho.com>
Sent: Tuesday, November 01, 2016 10:21 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; 'agroves@slo.state.nm.us'
Subject: (C-141 Initial) SRO STATE COM #064H (TB) 30-015-42130
Attachments: SRO State Com #064H (TB) Initial.pdf

MR. BRATCHER / MS. GROVES,

ATTACHED IS A C-141 FOR YOUR CONSIDERATION. IF YOU HAVE ANY ADDITIONAL QUESTIONS PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

ROBERT GRUBBS JR.
SR. HSE COORDINATOR
432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.661.6601 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

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Patterson, Heather, EMNRD

From: Robert Grubbs <RGrubbs@concho.com>
Sent: Saturday, October 29, 2016 10:51 AM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; 'agroves@slo.state.nm.us'
Subject: (Notification) SRO STATE COM #064H (TB)

MR. BRATCHER / MS. GROVES,

COG OPERATING LLC IS REPORTING A RELEASE ON THE SRO STATE COM #064H (30-015-42130)
UNIT E SECTION TO TOWNSHIP 26S RANGE 28E

THE RELEASE OCCURRED AT APPROXIMATELY 12:15 PM ON 10-28-2016

ESTIMATED RELEASED: APPROX. 30BBLS PRODUCED WATER

ESTIMATED RECOVERED: APPROX. 25BBLS PRODUCED WATER

THE RELEASE WAS CAUSED BY A 1/4" NIPPLE THAT BROKE OFF CAUSING THE SPILL. THIS ARE IS BEING
EVALUATED AND A C-141 WILL BE SUBMITTED. IF YOU HAVE ANY ADDITIONAL QUESTIONS PLEASE FEEL
FREE TO CONTACT ME.

THANK YOU,

ROBERT GRUBBS JR.
SR. HSE COORDINATOR
432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.661.6601 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

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DELETE THIS EMAIL FROM YOUR SYSTEM. THANK YOU.

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herein, is prohibited. If you have received this email in error, please immediately notify the sender by return
email and delete this email from your system. Thank you.