

October 5, 2016

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

**Re: Louise Fee #1
30-015-32988
Sec. 10, T22S-R27E
Eddy County, NM**

Mr. Mike Bratcher,

COG Operating LLC would like to submit the enclosed document for closure of the above captioned well. The plan is in response to the C-141 Initial report dated February 24, 2016.

All work has been completed in accordance with the approved work plan submitted to the NMOCD and the SLO.

A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any questions or concerns at (432) 683-7443 .

Sincerely,



Robert Grubbs Jr.
Senior Environmental Coordinator

Enclosed

- (1) C-141 Initial
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443	
Facility Name: LOUISE FEE #001	Facility Type: Wellhead	
Surface Owner: Fee	Mineral Owner: Fee	API No. 30-015-32988

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	10	22S	27E	990'	North	990'	West	Eddy

Latitude 32.4118195 Longitude -104.1830292

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 20 bbls Oil ; 40 bbls PW	Volume Recovered: 18 bbls Oil ; 27 bbls PW
Source of Release: Stuffing box leak	Date and Hour of Occurrence: 2/11/2016 10:15 am	Date and Hour of Discovery: 2/11/2016 10:15 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher - NMOCD	
By Whom? Robert Grubbs Jr.	Date and Hour: Friday, February 12, 2016 8:19 AM	
Was a Watercourse Reached? ☐ Yes ☒ 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 well packing and a clogged back pressure regulator. A vacuum truck was dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release remained on the pad area around the wellhead. 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: 	OIL CONSERVATION DIVISION		
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 ☐
Date: October 05, 2016	Phone: 432-683-7443		

* Attach Additional Sheets If Necessary

Louise Fee #1

February 11, 2016

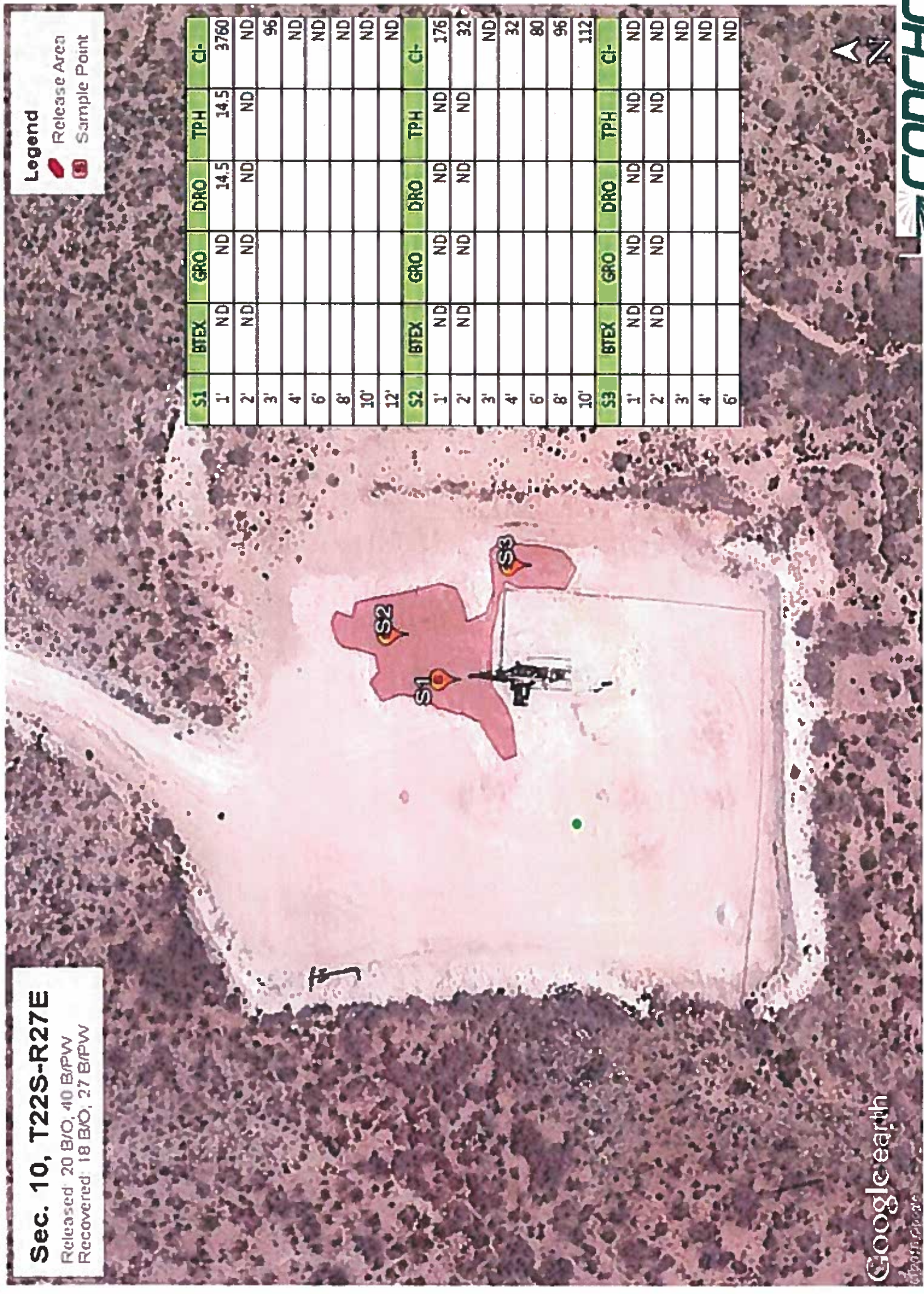
Sec. 10, T22S-R27E

Released: 20 B/O, 40 B/PW
Recovered: 18 B/O, 27 B/PW

Legend

-  Release Area
-  Sample Point

S1	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	14.5	14.5	3760
2'	ND	ND	ND	ND	ND
3'					96
4'					ND
6'					ND
8'					ND
10'					ND
12'					ND
S2	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	176
2'	ND	ND	ND	ND	32
3'					ND
4'					32
6'					80
8'					96
10'					112
S3	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	ND
2'	ND	ND	ND	ND	ND
3'					ND
4'					ND
6'					ND



Google earth



March 31, 2016

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: LOUISE FEE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/23/16 10:30.

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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 03/23/2016
Reported: 03/31/2016
Project Name: LOUISE FEE #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/22/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 1' (H600631-01)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTX	<0.300	0.300	03/29/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 99.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	03/28/2016	ND	400	100	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	03/25/2016	ND	196	97.9	200	3.19	
GRO >C10-C28	14.5	10.0	03/25/2016	ND	200	99.8	200	7.50	

Surrogate 1-Chlorooctane 83.0 % 35-147

Surrogate 1-Chlorooctadecane 95.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 LUPE CARRASCO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: LOUISE FEE #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 2' (H600631-02)

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	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 99.6% 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	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	03/25/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50	

Surrogate 1-Chlorooctane 83.7% 35-147

Surrogate 1-Chlorooctadecane 93.6% 28-171

Sample ID: S1 - 3' (H600631-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/28/2016	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 LUPE CARRASCO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: LOUISE FEE #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 4' (H600631-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S1 - 6' (H600631-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S1 - 8' (H600631-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S1 - 10' (H600631-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S1 - 12' (H600631-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 03/23/2016
Reported: 03/31/2016
Project Name: LOUISE FEE #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/22/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 1' (H600631-09)

BTX 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	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTX	<0.300	0.300	03/29/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2016	ND	400	100	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	03/25/2016	ND	196	97.9	200	3.19	
DRO >C10-C28	<10.0	10.0	03/25/2016	ND	200	99.8	200	7.50	

Surrogate 1-Chlorooctane 89.7 % 35-147

Surrogate 1-Chlorooctadecane 98.1 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 03/23/2016
Reported: 03/31/2016
Project Name: LOUISE FEE #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/22/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 2' (H600631-10)

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	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2016	ND	400	100	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	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	<10.0	10.0	03/28/2016	ND	160	79.9	200	4.90	

Surrogate 1-Chlorooctane 91.1 % 35-147

Surrogate 1-Chlorooctadecane 89.2 % 28-171

Sample ID: S2 - 3' (H600631-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 LUPE CARRASCO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 03/23/2016
 Reported: 03/31/2016
 Project Name: LOUISE FEE #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S2 - 4' (H600631-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S2 - 6' (H600631-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S2 - 8' (H600631-14)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S2 - 10' (H600631-15)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/28/2016	ND	400	100	400	0.00	

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 Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 03/23/2016
Reported: 03/31/2016
Project Name: LOUISE FEE #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/22/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 1' (H600631-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	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	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	<10.0	10.0	03/28/2016	ND	160	79.9	200	4.90	

Surrogate 1-Chlorooctane 91.3 % 35-147

Surrogate 1-Chlorooctadecane 95.1 % 28-171

Cardinal Laboratories
***=Accredited Analyte**

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Celey D. Keene
Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 03/23/2016
Reported: 03/31/2016
Project Name: LOUISE FEE #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/22/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 2' (H600631-17)

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	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					

Surrogate 4-Bromofluorobenzene (PIC) 99.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	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	03/28/2016	ND	179	89.3	200	3.87	
DRO >C10-C28	<10.0	10.0	03/28/2016	ND	160	79.9	200	4.90	

Surrogate 1-Chlorooctane 80.8 % 35-147

Surrogate 1-Chlorooctadecane 82.0 % 28-171

Sample ID: S3 - 3' (H600631-18)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 03/23/2016
Reported: 03/31/2016
Project Name: LOUISE FEE #1
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 03/22/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: S3 - 4' (H600631-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

Sample ID: S3 - 6' (H600631-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2016	ND	400	100	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
+	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS BENEFIT

Company Name: COG Operating LLC Project Manager: Lupe Carrasco Address: 2208 West Main City: Artesia State: NM Zip: 88210 Phone #: (575) 748-6940 Fax #: Project #: Project Name: Louise Fee #1 Project Location: Sampler Name: Lupe Carrasco		P.O. #: Company: COG Operating LLC Attn: Robert McNeill Address: 600 W Illinois City: Midland State: TX Zip: 79701 Phone #: (432) 221-0388 Fax #:	
Lab I.D. Sample I.D.			
FOR LAB USE ONLY		DATE TIME	
Lab I.D. Sample I.D.			
110000021			
1 S1-1' ☒ RAB OR ☐ COMP ☐ CONTAINERS ☐ GROUNDWATER ☐ WASTEWATER ☐ SOIL ☐ OIL ☐ SLUDGE ☐ OTHER ☐ ACID/BASE ☐ ICE / COOL ☐ OTHER DATE TIME			
2 S1-2'			
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6 S1-8'			
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73 S1-12'			
74 S1-12'			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

54#



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

2083

Company Name: COG Operating LLC

Project Manager: Lupe Carrasco

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6940

Project #:

Project Name: Louise Fee #1

Project Location:

Sampler Name: Lupe Carrasco

FOR USE ONLY

Bill To

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeil

Address: 600 W. Tenth

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0368

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D. Sample I.D.

HL000631

9 S2-1'

10 S2-2'

11 S2-3'

12 S2-4'

13 S2-6'

14 S2-8'

15 S2-10'

(G) RAB OR (C) COMP

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

DATE TIME

BTEX

TPH

Chlor de

9/29/16

X

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X

X

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Yes

No

Add'l Fax #:

Yes

No

Remarks:

gcarrasco@concho.com

alruillo@concho.com

Relinquished By:

Date:

Received By:

Phone Result:

Yes

No

Add'l Phone #:

Yes

No

Add'l Fax #:

Remarks:

gcarrasco@concho.com

alruillo@concho.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

FORM-006 R 2.0

Sample Condition

CHECKED BY:

Phone Result:

Yes

No

Add'l Phone #:

Yes

No

Add'l Fax #:

Remarks:

gcarrasco@concho.com

alruillo@concho.com

Time:

Time:

Time:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: COG Operating LLC

Project Manager: Lupe Carrasco

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6940

Project #:

Project Name: Louise Fee #1

Project Location:

Sampler Name: Lupe Carrasco

FOR USE ONLY

BILL TO

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W. Morris

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-4188

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	G RAB OR (C)OMP	# CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV ACID/BASE ICE / COOL OTHER	SAMPLING	DATE TIME	BTEX	TPH	Chloride										
HL00631	16	16	16	16	16	16	4/24/16	X	X	X										
	17	17	17	17	17	17		X	X	X										
	18	18	18	18	18	18		X	X	X										
	19	19	19	19	19	19		X	X	X										
	20	20	20	20	20	20		X	X	X										
	21	21	21	21	21	21		X	X	X										
	22	22	22	22	22	22		X	X	X										

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Relinquished By:

Date: 4/24/16
Time: 10:30 AM
Received By: Lupe Carrasco

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

FORM-006 R 2.0

Sample Condition

Cool Intact

Yes ☒ No ☐

CHECKED BY:

Signature

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: gcarasco@concho.com

alrujillo@concho.com

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54