



November 5, 2014

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

Re: Continental A State Battery
Sec. 30, T17S-R29E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated September 24, 2014.

Background

The release was due to a damaged valve on a valve manifold with 20 barrels of oil and 50 barrels of produced water released. All fluid was contained within the berm area and recovered through the use of a vacuum truck. Fluid recovery totaled 20 barrels of oil and 45 barrels of produced water. Initial excavation of the impacted area was approximately 4-6" in depth with all impacted material hauled to an approved NMOCD disposal facility.

The facility impacted was constructed on a caliche pad that is approximately 3 1/2' higher in elevation than the surrounding well pad and battery. All production equipment, valve manifolds, and chemical tanks sit on this bermed pad.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero with depth to groundwater at greater than 175'.

Soil Assessment and Analytical Results

Two sample points (S1 & S2) were selected within the berm area. Sample points were chosen based on the complexity of flow lines, electric conduits, and major pooling area. Samples were taken at depths of 1' and 2' for each sample point labeled on the attached Site Diagram. S2 was delineated further to a depth of 3' and 5'. The Site Diagram includes a Sample Summary Table and an outline of the release and associated lines.

Sample Results show TPH and BTEX levels to be non-detect for both sample points and chloride levels to be elevated for S2 at depths of 1' and 2'. A copy of the Analytical Results is attached for your consideration.

S1	GRO	DRO	TPH	BTEX	Cl-
1'	ND	66.6	66.6	ND	1310
2'	ND	ND	ND	ND	112
S2	GRO	DRO	TPH	BTEX	Cl-
1'	ND	ND	ND	ND	7680
2'	ND	ND	ND	ND	4280
3'	NA	NA	NA	NA	ND
5'	NA	NA	NA	NA	48

Work Plan

COG Operating LLC proposes no further excavation of the area based on the amounts of oil recovered, the initial excavation of 4-6" of impacted material, TPH and BTEX levels within RRAL's for a site ranking of zero, and pad elevation.

The foundation for the production units is built 3 1/2' above ground level. There is approximately 3' of clean material between the bottom of the spill and native soils. This is an adequate barrier for protection of both native soils and ground water.

If there are no objections or further stipulations, COG Operating LLC would like to begin the backfill process based on approval of this work plan and is also requesting closure of the site. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,

Lupe Carrasco
Environmental Coordinator

Enclosure(s): Site Diagram
Analytical Results
C-141 Initial (Copy)
C-141 Final

Continental A State Battery

September 9, 2014

Sec 30, T17S-R29E

Released: 20 B/O, 50 B/PW

Recovered: 20 B/O, 45 B/PW

Legend

S1	GRO	DRO	TPH	BTEX	CI-
1'	ND	66.6	66.6	ND	1310
2'	ND	ND	ND	ND	112
S2	GRO	DRO	TPH	BTEX	CI-
1'	ND	ND	ND	ND	7680
2'	ND	ND	ND	ND	4280
3'	NA	NA	NA	NA	ND
5'	NA	NA	NA	NA	48

Google earth

CONCHO



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 14, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CONTINENTAL A STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/09/14 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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: 10/09/2014
Reported: 10/14/2014
Project Name: CONTINENTAL A STATE BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 10/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1 - 1' (H403103-01)

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	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	10/13/2014	ND	416	104	400	3.92	

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	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	66.6	10.0	10/11/2014	ND	188	94.0	200	0.737	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 10/09/2014
Reported: 10/14/2014
Project Name: CONTINENTAL A STATE BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 10/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S1 - 2' (H403103-02)

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	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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	10/13/2014	ND	416	104	400	3.92	

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	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 10/09/2014
Reported: 10/14/2014
Project Name: CONTINENTAL A STATE BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 10/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S2 - 1' (H403103-03)

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	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	10/13/2014	ND	416	104	400	3.92	

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	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 111 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 10/09/2014
Reported: 10/14/2014
Project Name: CONTINENTAL A STATE BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 10/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S2 - 2' (H403103-04)

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	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	10/13/2014	ND	416	104	400	3.92	

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	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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 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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: Lupe Carrasco		Company: COG Operating LLC																									
Address: 2208 West Main		Attn: Robert McNeill																									
City: Artesia		Address: 600 W Illinois																									
Phone #: (575) 748-6940		City: Midland																									
Fax #: Project Owner:		State: TX Zip: 79701																									
Project Name: Continental A State Battery		Phone #: (432) 221-0388																									
Project Location:		Fax #:																									
Sampler Name: Lupe Carrasco																											
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
H403103																											
01 S1-1'		(G)RAB OR (C)OMP.																									
02 S1-2'		# CONTAINERS																									
03 S2-1'		GROUNDWATER																									
04 S2-2'		WASTEWATER																									
		SOIL																									
		OIL																									
		SLUDGE																									
		OTHER :																									
		ACID/BASE:																									
		ICE / COOL																									
		OTHER :																									
		DATE																									
		TIME																									
		BTX																									
		TPH																									
		Chloride																									

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:

Date: 10/9/14 Received By:

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

Fax Result: ☐ Yes ☐ No Add'l Fax #:

Relinquished By:

Date: 10/9/14 Received By:

REMARKS: qcarrasco@concho.com

Delivered By: (Circle One)

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Cool Intact

Yes Yes



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 20, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CONTINENTAL A STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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: NONEReceived: 10/16/2014
Reported: 10/20/2014
Project Name: CONTINENTAL A STATE BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVENSampling Date: 10/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez**Sample ID: S2-3' (H403183-01)**

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	10/17/2014	ND	416	104	400	7.41	

Sample ID: S2-5' (H403183-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2014	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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 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

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 20, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CONTINENTAL A STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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: NONEReceived: 10/16/2014
Reported: 10/20/2014
Project Name: CONTINENTAL A STATE BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVENSampling Date: 10/08/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez**Sample ID: S2-3' (H403183-01)**

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	10/17/2014	ND	416	104	400	7.41	

Sample ID: S2-5' (H403183-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/17/2014	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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 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

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

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. 432-230-0077
Facility Name: Continental A State Battery	Facility Type: Battery

Surface Owner: State	Mineral Owner: State	API No. 30-015-29696
----------------------	----------------------	----------------------

LOCATION OF RELEASE

Unit Letter C	Section 30	Township 17S	Range 29E	Feet from the 330	North/South Line North	Feet from the 1409	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude N 32'48.739 Longitude W104'06.993'

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: Oil 20 bbls; PW 50 bbls	Volume Recovered: Oil 20 bbls; PW 45 bbls
Source of Release: Valve	Date and Hour of Occurrence: 9/9/2014 7:00 am	Date and Hour of Discovery: 9/9/2014 7:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – OCD	
By Whom? Amanda Trujillo	Date and Hour: 9/10/2014 10:49 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.*

This release was caused by a damaged valve and contained inside the bermed area. Vacuum trucks were dispatched to recover standing fluids.

Describe Area Affected and Cleanup Action Taken.*

The release was contained within the battery. 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.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Amanda Trujillo

Approved by Environmental Specialist:

Title: Senior Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: atrujillo@concho.com

Conditions of Approval:

Attached ☐

Date: September 24, 2014 Phone: 575-748-6940

* Attach Additional Sheets If Necessary

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. 432-230-0077
Facility Name: Continental A State Battery	Facility Type: Battery

Surface Owner: State	Mineral Owner: State	API No. 30-015-29696
----------------------	----------------------	----------------------

LOCATION OF RELEASE

Unit Letter C	Section 30	Township 17S	Range 29E	Feet from the 330	North/South Line North	Feet from the 1409	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude N 32°48.739 Longitude W104°06.993'

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: Oil 20 bbls; PW 50 bbls	Volume Recovered: Oil 20 bbls; PW 45 bbls
Source of Release: Valve	Date and Hour of Occurrence: 9/9/2014 7:00 am	Date and Hour of Discovery: 9/9/2014 7:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – OCD	
By Whom? Amanda Trujillo	Date and Hour: 9/10/2014 10:49 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.*

This release was caused by a damaged valve and contained inside the bermed area. Vacuum trucks were dispatched to recover standing fluids.

Describe Area Affected and Cleanup Action Taken.*

The release was contained within the battery. 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.

OIL CONSERVATION DIVISIONSignature: 

Printed Name: Lupe Carrasco

Approved by Environmental Specialist:

Title: Environmental Coordinator

Approval Date:

Expiration Date:

E-mail Address: gcarrasco@concho.com

Conditions of Approval:

Attached ☐

Date: October 21, 2014 Phone: 575-748-6940

* Attach Additional Sheets If Necessary