

December 22, 2014

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

Re: Canvasback 13 Federal #2H

Sec. 13, T24S-R31E 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 August 17, 2014.

Background

The release was due to a split in the poly line that ran parallel to the lease road. The impacted area measured approximately 27' X 300' along the lease road and impacting two areas in the pasture. A vacuum truck was dispatched to recover any standing fluid.

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 375'.

Soil Assessment and Analytical Results

Sample points noted on the attached Site Diagram are labeled with an S to denote initial sample points. Sample points labeled with B were chosen as a mid-point between the initial sample points and were sampled with the use of a coring rig. The reason for the offset of the borings was due to the rigs inability to sample in the disturbed area created during initial sampling. Sample points S1 and S2 were selected within the pooling area where the split in the poly line occurred. S3 and S4 consisted of the pooling area at the end of the release.

Samples were rendered initially with a backhoe but a petrocalcic barrier located at approximately a 2' depth was impenetrable by the backhoe. A coring rig was brought in to further delineate the samples. Sample results for TPH and BTEX were tested at the 1' depth for all sample points and proved to be non-detect based on the attached Analytical

Results. Chloride results proved to be elevated at depths of 1' and 2', therefore further delineation was conducted and represented with a B on the Site Diagram.

Work Plan

COG Operating LLC proposes the following work plan based on delineation samples B1 & B2:

- B1 (S1-S2): Excavate to approximately 2.5' or until the caliche zone is reached.
- B2 (S3-S4): Excavate to approximately 2.5' or until the caliche zone is reached.

B1	CI-
3'	704
5'	560
B2	CI-
31	64
5'	4000
7'	544

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. 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)





August 27, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CANVASBACK 13 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received:

08/21/2014

Reported:

08/27/2014

Project Name:

CANVASBACK 13 FEDERAL #2H

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

08/14/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S1-1' (H402569-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31	
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33	
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96	
Total BTEX	<0.300	0.300	08/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	08/25/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2014	ND	192	95.9	200	0.368	
DRO >C10-C28	<10.0	10.0	08/22/2014	ND	199	99.4	200	3.77	
Surrogate: 1-Chlorooctane	105 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1159	63.6-15	4						

Sample ID: S1-2' (H402569-02)

Chloride, SM4500Cl-B	mg	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	08/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Ulability 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 whistoevers shall be deemed walved 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 clamages, 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 Z. Kuna



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

Received:

08/21/2014

Sampling Date:

08/14/2014

Reported:

RTFY 8021B

Sampling Type:

Soil

08/27/2014

Sampling Condition:

Cool & Intact

Project Name:

CANVASBACK 13 FEDERAL #2H

ma/ka

Sample Received By:

Kathy Perez

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample ID: S2-1' (H402569-03)

BTEX 8021B	mg,	kg	Analyze	ед Ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31	
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33	
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96	
Total BTEX	<0.300	0.300	08/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	08/25/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2014	ND	192	95.9	200	0.368	
DRO >C10-C28	<10.0	10.0	08/22/2014	ND	199	99.4	200	3.77	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	120	63.6-15	4						

Analyzed Ry: CK

Cardinal Laboratories *=Accredited Analyte

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Celeg T. Kana



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

Received:

08/21/2014

08/27/2014

Reported: Project Name:

CANVASBACK 13 FEDERAL #2H

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Type: Sampling Condition:

Sample Received By:

Cool & Intact

08/14/2014

Soil

Kathy Perez

Sample ID: S3-1' (H402569-04)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31	
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33	
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96	
Total BTEX	<0.300	0.300	08/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7520	16.0	08/25/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<20.0	20.0	08/22/2014	ND	192	95.9	200	0.368	
DRO >C10-C28	<10.0	10.0	08/22/2014	ND	199	99.4	200	3.77	
Surrogate: 1-Chlorooctane	104 9	65.2-140)						
Surrogate: 1-Chlorooctadecane	121 9	63.6-15-	4						

Sample ID: S3-2' (H402569-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	08/25/2014	ND	400	100	400	0.00	

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

Received:

08/21/2014

Sampling Date:

08/14/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

CANVASBACK 13 FEDERAL #2H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S4-1' (H402569-06)

BTEX 8021B	mg,	/kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2014	ND	2.04	102	2.00	7.31	
Toluene*	<0.050	0.050	08/25/2014	ND	2.06	103	2.00	7.33	
Ethylbenzene*	<0.050	0.050	08/25/2014	ND	2.09	104	2.00	7.14	
Total Xylenes*	<0.150	0.150	08/25/2014	ND	6.44	107	6.00	6.96	
Total BTEX	<0.300	0.300	08/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/25/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2014	ND	192	95.9	200	0.368	
DRO >C10-C28	<10.0	10.0	08/25/2014	ND	199	99.4	200	3.77	
Surrogate: 1-Chlorooctane	115 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	125	63.6-15	4						

Sample ID: S4-2' (H402569-07)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune



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

Fax To:

Received:

08/21/2014

Reported:

08/27/2014

Project Name:

CANVASBACK 13 FEDERAL #2H

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

08/14/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S4-3' (H402569-08)

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/25/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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Celeg D. Keena



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

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Celey D. Kuna



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

Company Name:	: COG Operating LLC		0.000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01.778				ANALYSIS		REQUEST	
Project Manager:	r. Lupe Carrasco		٠	P.O. #:						- 1		
Address: 220	2208 West Main		C.	Company:	COG Operating LLC	5	550			_		-
City: Artesia	State: NM	Zip	88210 AI		Robert McNeill							
Phone #:	(575) 748-6940 Fax #:		A	Address:	600 W Illinois						BUES	
Project #:	Project Owner	ner	Ω	City:	Midland							
Project Name:	Canvasback 13 Federal #2H		St	컷	Zip: 79701							
Project Location:			P	# (43)	(432) 221-0388				_			
Sampler Name:	Lupe Carrasco		ना									
FOR LAB USE ONLY	11.		MATRIX	PRESERV.	SAMPLING							
Lab I.D.	Sample I.D.	RAB OR (C)OMP. CONTAINERS COUNDWATER ASTEWATER	UDGE	ID/BASE: E / COOL HER :		EX	Н	loride				
	S1-1 [']				8/14/14	×	×	×		$\frac{1}{2}$	$\frac{1}{4}$	
b	S1-2 ¹							×				
	S2-1'					×	×	×				300
5	S3-1'					×	×	×		O year		
h	S3-2'					-		×				
6	\$4-1					×	×	×				The state of the s
	S4-2'							×				
00)	\$4-3'							×				

Yes □ No Add'l Phone #:
Yes □ No Add'l Fax #:

QCarrasco@concho.com

Sampler - UPS - Bus - Other:

ら、し。古



November 14, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CANVASBACK 13 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 11/13/14 10:55.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received:

11/13/2014

Reported:

11/14/2014

Project Name:

CANVASBACK 13 FEDERAL #2H

Project Number:

NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

NOT GIVEN

Sampling Date:

11/12/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: B1 - 3' (H403502-01)

Chloride, SM4500Cl-B

Chloride

Chloride

Chloride

Chloride

mg/kg

704

Result

560

Result

64.0

Result

4000

Analyzed By: AP

Result Reporting Limit

16.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 11/14/2014 Method Blank ND

ND

ND

BS % Recovery

True Value QC

RPD 0.00

Qualifier

Sample ID: B1 - 5' (H403502-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Reporting Limit

Analyzed Method Blank BS

400

400

% Recovery 100

100

True Value QC

400

400

RPD

0.00

0.00

Qualifier

Sample ID: B2 - 3' (H403502-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

11/14/2014

Analyzed

11/14/2014

11/14/2014

Method Blank

BS

400

% Recovery 100

True Value QC

400

RPD

Qualifier

Sample ID: B2 - 5' (H403502-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE. Uability 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 walved 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. Kena



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keena



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

Action Assessed					The state of the s				
Project Manager:	Lupe Carrasco			P.O. #					
Address: 2208 V	2208 West Main			Company:	COG Operating LLC				
City: Artesia	State: NM	Z	Zip 88210	Attn:	Robert McNeill				
Phone #:	(575) 748-6940 Fax #:			Address:	600 Willinois				
Project #:	Project Owner:	e 7:		City:	Midland				
Project Name: Ca	Canvasback 13 Federal #2H			State: TX	Zip: 79701				
Project Location:				Phone #: (432	(432) 221-0388				
Sampler Name:	Lupe Carrasco			Fax #:					
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER ACID/BASE ICE / COOL OTHER	DATE TIME	втех	ТРН	Chloride	
_	B1-3'	_			11/12/14			×	
	B1-5'			-	11/12/14			×	
₩ B	B2-3'				11/12/14			×	
	B2-5'				11/12/14			×	

Relinquished By:

Date:

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, just of use, or loss of profits incurred by client, its subsidiaries.

Received By:

Phone Result:
Fax Result:
REMARKS:

atrujiilo@concho.com, gmerket@concho.com

Relinquished By:

85.9

Date:

Time:

Delivered By: (Circle One)
FORM-006 R 20
Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Tres Yes
No No

CHECKED BY:
(Initials)



November 21, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CANVASBACK 13 FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 11/20/14 14:10.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received:

11/20/2014

Reported:

11/21/2014

Project Name:

CANVASBACK 13 FEDERAL #2H

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

5,

11/12/2014 Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

.

Mike Snyder

Sample ID: B2-7' (H403572-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	11/21/2014	ND	416	104	400	3.77	

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 walved 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 inharmuptions, 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.

Celley D. Keina



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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 listle 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.

Celeg T. Krana-



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

Company Name:			9) W 81/1.	Personal Per			ANALYSIS REQUEST
Project Manager:	Lupe Carrasco		P.O. #:		\dashv		- 1
Address: 2208	2208 West Main		Company: COG Operating LLC	atino LLC			
City: Artesia	State: NM	Zip 88210		Neil	_		
Phone #:	(575) 748-6940 Fax #:		BSS:	Illinois			
Project #:	Project Owner:	mer:		<u>a</u>			
Project Name: C	Canvasback 13 Federal #2H		: TX Zip	9			
Project Location:			(43)			_	
Sampler Name:	Lupe Carrasco						
CONTINUE NAME OF THE PARTY OF T	Lupe Carrasco		Fax#:				
FOR LAB USE ONLY			PRESERV. SAMPLING	NG			
Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER	OTHER : ACID/BASE: ICE / COOL OTHER :	BTEX	TPH	Chloride	
В	B2-7'	×	_		1	~ (
service. In no event shall Cardin efflictes or successors arising or Relinquished By:	mariyees. All claims including these for negligence and any other cause whatboever shall be deemed waived unless made in writing and necessived within 30 days after completion of the application in no event shall Cardinal be faible for incidental or consequental damages, including without firstation, business interruptions, loss of use, or loss of protist incurred by Cardinal within 30 days after completion of the applications or successors signing 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 research or otherwise.	be deemed watwed unices made in writing and witing without emission, business interruptions, it by Cardinal, regardless of whether such claim is	or we, were se anneat to the amount paid by the client lot to received by Cardinal within 30 days after completion of the case of use, or base of profits incurred by client, its subsidiates that got the completion and of the above stated ressons or otherwise.	of by the client for the r completion of the application, its substitutiones, isons or otherwise.	able		
7	1001	Neceived by:		Phone Result: Fax Result:	U Yes	2 G	Add'l Phone #:
Relinquished By:	Date: 412	Received By:	1	REMARKS: 9		8	Aug I Fax #: <u>No com</u>
	Time:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other	Other:	<u> </u>	CHECKED BY:				
		で作	4				

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-1 Revised October 10, 2

Submit 2 Coples to appropri District Office in accorda with Rule 116 on ba side of fc

Release Notification and Corrective Action OPERATOR Initial Report Final Re **COG OPERATING LLC** Contact Robert McNeill Name of Company Address 600 West Illinois Avenue, Midland, TX 79701 Telephone No. 432-230-0077 Canvasback 13 Federal #2H Facility Name: Facility Type: Flowline Surface Owner: Federal Mineral Owner: Federal Lease No. (API#) 30-015-40538 **LOCATION OF RELEASE** Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 13 **24S** 31Ĕ 480 A 330 North Faet Eddy Latitude N32' 13.476 Longitude W103' 43.375 **NATURE OF RELEASE** Type of Release Volume of Release Volume Recovered **Produced Water** 70 bbls 25 bbls Source of Release Date and Hour of Occurrence Date and Hour of Discovery 4" poly waterline 8/03/2014 2:30 pm 8/03/2014 2:30 pm Was Immediate Notice Given? If YES, To Whom? Mike Bratcher - OCD, Jeffrey Robertson - BLM Date and Hour 8/4/2014 6:15 pm By Whom? Amanda Trujillo Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🔀 No If a Watercourse was Impacted, Describe Fully,* Describe Cause of Problem and Remedial Action Taken.* A split in the polyline caused the release of produced water. The polyline was fused back together and a vacuum truck dispatched to pick up any standing fluids and dispose of at an NMOCD approved facility. Describe Area Affected and Cleanup Action Taken.* The impacted area was approximately 27' x 300' along the road. 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: Approved by District Supervisor: Amanda Trujillo **Printed Name:** Title: Senior Environmental Coordinator Approval Date: **Expiration Date:** E-mail Address: atruillo@concho.com Conditions of Approval: Attached Date August 17, 2014 575-746-2010 Phone: