



August 4, 2016

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

Re:

Canvasback 13 Federal #2H

30-015-40538 Sec. 13, T24S-R31E Eddy County, NM

Ms. Patterson/Ms. Tucker,

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 February 19, 2016.

Background

This release was caused when a gauge was removed from the wellhead overnight while the well was being serviced. Vandalism was suspected. A vacuum truck was dispatched to recover standing fluid. An impacted area outside the berm measures approximately 0.36 acres. This area was addressed with an initial scrap and all impacted material hauled to an NMOCD approved facility.

Groundwater & Soil Assessment

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at approximately 375'. The soil at the well site has been classified as a Pajarito loamy fine sand, 0 to 3 percent slope, eroded. This characterized by dunal complexes of mixed alluvium and/or eolian sands with a restrictive barrier at more than 80 inches.

Analytical Results

Initial soil samples were taken on 3-30-2016 and on 6-15-2016 when samples were further delineated. Samples indicated TPH and BTEX were within RRALs for site ranking zero. Chloride concentration in sampling areas S2 and S3 were elevated at 1 foot depth and S1 had elevated concentrated to a depth of 4 foot. (see attached site diagram)

Site Ranking: Zero

Depth to GW per SEO: >300'

DCP	נוו נט ט	or per c	10.75	00	
51	DRO	GRO	TPH	BTEX	GI-
1'	< 10.0	< 10.0	< 10.0	<0.300	5440
2'	< 50.0	< 50.0	< 50.0	<0.300	3480
3'	< 10.0	< 10.0	< 10.0	<0.300	1920
4'	66.5	< 10.0	66.5	<0.300	1760
6'				EMP ES	688
8'					496
10'		112121		821200	272
12'			188 1788		224
14'		-			208
52	DRO	GRO	TPH	BTEX	Ci+
1'	< 10.0	< 10.0	< 10.0	<0.300	1170
2'	< 10.0	< 10.0	< 10.0	<0.300	432
3'	< 10.0	< 10.0	< 10.0	<0.300	272
4'	< 10.0	< 10.0	< 10.0	<0.300	64
8'			Te-2/AVIII		224
10'				1 = 2 = 1	272
12'	44		1-1-		48
14'					224
53	DRO	GRO	TPH	BTEX	GI-
1'	16.4	< 10.0	16.4	<0.300	6640
2'	< 10.0	< 10.0	< 10.0	<0.300	160
3'	< 10.0	< 10.0	< 10.0	<0.300	160
4'	< 10.0	< 10.0	< 10.0	<0.300	192
6'					128
8'					32
10'				CV614	128
12'				8	32
14'		- 3			192
Bold v	alues exce	ed RRALs	per NMO	CD Guideline	es (1993)

Work Plan

COG proposes the partial excavation and deferment of 2RP-3588 due to the associated hazards with buried lines. These hazards pose a safety concern with respect to excavation. At a site ranking of Zero, any chlorides found on this location from this release pose no threat to wildlife, human health, or ground water. Portions of S1 and S3 will be excavated to a depth of 2 feet and foot, respectively, as indicated on the attached map. This location will be further excavated at the time of abandonment.

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 my with any questions or concerns at (575) 748-6940.

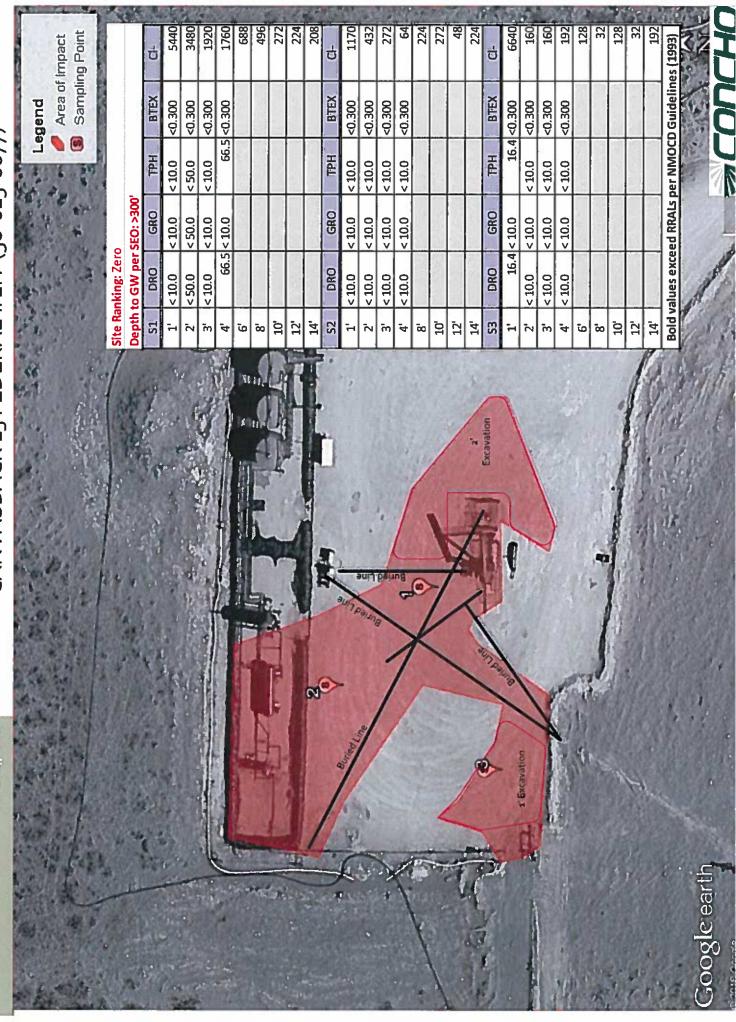
Sincerely,

Amanda Trujillo Davis

Senior Environmental Coordinator

Enclosed

- (1) Site Diagram and Summary Table
- (2) Laboratory Analysis





June 21, 2016

LUPE CARRASCO

COG Operating, LLC

500 W. ILLINOIS

Midland, TX 79701

RE: CANVASBACK FED #2H

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

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

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

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

Accreditation applies to public drinking water matrices.

Celeg & 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, LLC **LUPE CARRASCO** 500 W. ILLINOIS Midland TX, 79701 Fax To: None

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Sample ID: S2-1' (H601325-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2,00	0.357	
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	<0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/16/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	103 9	6 73.6-14	0						
Chloride, SM4500CI-B	loride, SM4500CI-B mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	06/17/2016	NĐ	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	79.4	% 35-147							
Surrogate: 1-Chlorooctadecane	67.3	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liablely and Damages. Cardinal's bablety and cherits exclusive remoty for any claim arraing, whether based in contract or tort, shall be lamined to the amount paid by cherit for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing and received by Cardinal within thirty [30] days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, encluding, without lamineton, business interruptions, loss of use, or loss of profits incurred by cherit, its subsidiances, affiliates or successors arraing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results ristee only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Colony D. Kenne



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

Received:

06/15/2016

Reported:

RTEY 90218

06/21/2016

Project Name:

Project Number:

CANVASBACK FED #2H

Project Location:

NONE GIVEN NONE GIVEN Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2-2' (H601325-02)

BTEX 8U21B	mg/	Kg	Anaiyze	α ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/16/2016	ND	1.96	98.0	2.00	0.357	
Toluene*	<0.050	0.050	06/16/2016	ND	1.99	99.5	2.00	0.686	
Ethylbenzene*	<0.050	0.050	06/16/2016	ND	1.83	91.7	2.00	0.552	
Total Xylenes*	< 0.150	0.150	06/16/2016	ND	5.71	95.2	6.00	0.128	
Total BTEX	<0.300	0.300	06/16/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 %	6 73.6-140	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/17/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	80.2 5	6 35-147	5.						
Surrogate: 1-Chlorooctadecane	82.79	6 28-171							

Analyzed By: MC

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cherit's exclusive remedy for any claim arising, whether based in contract or tork, shall be limited to the amount paid by cherit 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 clerk, its subsidiance, affiliates or successors anising 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 approxival of Cardinal Laboratories.

along to Kame

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 20



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S2-3' (H601325-03)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total 8TEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/17/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: 1-Chlorooctane	79.15	6 35-147	12.						
Surrogate: 1-Chlorooctadecane	80.8	% 28-171							

*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE. Liability and Damages. Cardinal's bability and clearits exclusive remedy for any clear arising, whether based in contract or tort, shall be limited to the amount paid by clear for enalyses. All claims, including those for negligence and any other clause whatsonier shall be deemed waived unless made in writing and received by Cardinal within theiry (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by clearly, as subsidiaries, artiflaties or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

College Home



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2-4' (H601325-04)

BTEX 80218	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2,00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 73.6-14	0						
Chloride, SM4500CI-B	orlde, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/17/2016	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate 1-Chlorooctane	75.0	% 35-147							
Surrogate: 1-Chlorooctadecane	74.9	% 28-171							

Sample ID: S2-6' (H601325-05)

Chloride, SM4S00Cl-B mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/17/2016	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTTE: Liability and Damages. Cardinal's Bability and client's exclusive remertly for any client arrang, whether based in contract or tort, shall be larred to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoriers shall be deemed warved 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 lamitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or auccessions arising out of or releted to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratomes.

Celany & Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 20



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

Received:

06/15/2016

Reported:

Chlorida SM4500CL-B

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

ma/ka

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S2-8' (H601325-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/17/2016	ND	416	104	400	3.92	
Sample ID: S2-10' (H6013	325-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/17/2016	ND	416	104	400	3.92	
Sample ID: S2-12' (H6013	25-08)								
Chloride, SM4500CI-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	06/20/2016	ND	400	100	400	3.92	
Sample ID: S2-14' (H6013	25-09)								
hloride, SM4500Cl-B mg/kg		/kg	Analyzed By: AP		·				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/20/2016	ND	400	100	400	3.92	

Analysed By AD

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usbility 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 plant by client for analyses. All claims, includ any other clause whatsoever shall be deemed waved 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 incident including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors among out of or related to the performance of the services hereunder by Cardinal, 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 Laboratones.

Celegy trans



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3-1' (H601325-10)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	104 %	6 73.6-14	0						
Chloride, SM4500Ci-B	mg/l	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	16.4	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate 1-Chlorooctane	76.69	6 35-147							
Surrogate: 1-Chlorooctadecane	79.59	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabeley and Damages. Cardinal's liabelity and chem's exclusive remedy the any claim artsing, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other claims whistoners 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 immitation, business interruptions, loss of use, or fost of profits incurred by Cardinal, regardless of whether such claims 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.

College Keine



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3-2' (H601325-11)

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	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102 9	6 73 6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate 1-Chlorooctane	78.2 9	% 35-147	,			1900/291			
Surrogate: 1-Chlorooctadecane	75.69	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and client's exclusive remedy for any claim arturing, 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 whateverer shall be deemed waved unless made in writing and received by Cardinal within thin) (30) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without immitted, writing thin the performance of the services between the applicable service, and the performance of the services hereinder by Cardinal, regardless of whether such claims is based upon any of the above stated relation or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with writinal approval of Cardinal Laboratomes.

Clay To Kana



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3-3' (H601325-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	NĐ	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104%	6 73.6-140	n						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	
Surrogate: I-Chlorooctane	84.8 9	6 35-147							
Surrogate: 1-Chlorooctadecane	84.59	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bablity and chem's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by chem for enalyses. All claims, including those for negligence and any other base whatsoever shall be deemed waved unless made in writing and received by Cardinal within their [35] days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequential damages, including, without ferification, business interruptions, loss of use, or foss of use, or foss of profits incurred by clerk, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Clay & Kame



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number: Project Location: NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S3-4' (H601325-13)

34mple 10: 33-4 (11001323-13	•								
BTEX 8021B	mg/	/kg	Analyze	d By: MS		. <u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	104	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/kg Analy:		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/17/2016	ND	190	95.1	200	0.0594	
DRO >C10-C28	<10.0	10.0	06/17/2016	ND	190	94.8	200	2.04	

Surrogate: 1-Chlorooctane

79.9 %

35-147

Surrogate: I-Chlorooctadecane

84.3 %

28-171

Sample ID: S3-6' (H601325-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/20/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usibility and Damages. Cardinal's Babbley and chem's exclusive remerty for any claim arising, whether based in contract or tort, shall be limited to the amount paid by cleint for analyses. All claims, including those for neplagence and any other cause whictioever shall be deemed warved unless made in writing and received by Cardinal within thirty (((ii)) days after completion of the applicable service. In no event shall Cardinal be Bable for incidental compages, including, without instruction, business interruptions, losses of use, or loss of profits incident by clein, regardless of whether such claims is based upon any of the shower stitled 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.

Colony & Karne



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S3-8' (H601325-15)

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2016	ND	400	100	400	3.92	
Sample ID: S3-10' (H601	325-16)								
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	06/20/2016	ND	400	100	400	3.92	
Sample ID: S3-12' (H601	325-17)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/20/2016	ND	400	100	400	3.92	
Sample ID: S3-14' (H601	325-18)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/20/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and chent's exclusive remety for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whatsoniver shall be deemed waved unless made in writing and received by Cardinal within theiry (30) days after completion of the applicable service, In no event shall Cardinal be Bable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, repertiless 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 Laboratoness.

Celley & Keine



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number: Project Location: NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S1-1' (H601325-19)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	< 0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
DRO >C10-C28	<10.0	10.0	06/18/2016	ND	198	98.9	200	7.68	
Surrogate 1-Chlorooctane	65.3 9	6 35-147	65					440	
Surrogate: 1-Chlorooctadecane	67.69	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: LiabMay and Damages. Cardmai's lability and chem's exclusive remedy for any cleam arturn, whether bessed in contract or tort, shall be lamited to the amount paid by chem for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless enade in writing and received by Cardmai within sturty (30) days after completion of the applicable senice. In no event shall be labile for incidental or consequential damages, including, without benefits in the structure of the services interruptions, loss of use, or toss of set, or toss of sections, affiliates or successors among out of or related to the performance of the services hereunder by Cardmai, regardless of whether such claims its 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 writina approval of Cardmai Laboratomers.

Celary & Karne

Celey D. Keene, Lab Director/Quality Manager

Page 12 of 20



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

Received:

06/15/2016

Reported:

DTEV GARAGE

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S1-2' (H601325-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2,00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	103 5	% 73 6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
DRO >C10-C28	<10.0	10.0	06/18/2016	ND	198	98.9	200	7.68	
Surrogate 1-Chlorooctane	76.1	% 35-147							
Surrogate 1-Chlorooctadecane	75.9	% 28-171							

Ameliana d Disc 840

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 claim for analyses. All claims, including those for negligence and any other Cause Whitsoever shall be deemed waved whites made in writing and received by Cardinal within thirty ((8)) 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 use, or loss of profits incidental by client, its subsidiance, infliates 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.

College Hime



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

Received:

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number: Project Location: NONE GIVEN NONE GIVEN

06/15/2016

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S1-3' (H601325-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	104 9	6 73.6-14	n						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	06/20/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
DRO >C10-C28	<10.0	10.0	06/18/2016	ND	198	98.9	200	7.68	
Surrogate: 1-Chlorooctane	74.15	6 35-147	2						
Surrogate: 1-Chlorooctadecane	70.7 9	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be lemmed to the amount paid by cleent for analyses. All claims, including those for negligence and any other claims whistsower shall be deemed warved unless made in witting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be faible for incidental or consequential damages, including, without familiation, business interruptions, loss of use, or loss of profits incurred by cleent, its sudisidanes, effiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Calley to trans-



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S1-4' (H601325-22)

mg/	kg	Anaiyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
<0.300	0.300	06/20/2016	ND					
102 9	% 73.6-14	0						
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1760	16.0	06/20/2016	ND	400	100	400	3.92	
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
66.5	10.0	06/18/2016	ND	198	98.9	200	7.68	
75.0	% 35-147							
	Result <0.050 <0.050 <0.050 <0.150 <0.300 102 9 mg/ Result 1760 mg/ Result <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.150 <0.300 0.300 102 % 73 6-14 mg/kg Result Reporting Limit 1760 16.0 mg/kg Result Reporting Limit <10.0 10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Sample ID: \$1-6' (H601325-23)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/20/2016	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any client arising, whether based on 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 waved unless made in writing and rezawed by Cardinal within thirty (30) days after completions 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 inclured by client, its subsidiaries, efficients or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 laboratorness.

College Kenne



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

Received:

06/15/2016

Reported:

06/21/2016

Project Name:

CANVASBACK FED #2H

Project Number: Project Location: NONE GIVEN

NONE GIVEN

Sampling Date:

06/07/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S1-8' (H601325-24)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

496

Result

272

Result

224

Result

208

Analyzed 06/20/2016 Method Blank ND

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400

RPD

Qualifier

3.92

Sample ID: S1-10' (H601325-25)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

BS

400

BS

400

В\$

400

% Recovery

100

RPD Qualifier

3.92

400

True Value QC

Sample ID: S1-12' (H601325-26)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

06/20/2016

Analyzed

06/20/2016

Analyzed

06/20/2016

Method Blank

ND

ND

% Recovery

100

True Value OC

400

RPD

Qualifier

Sample ID: S1-14' (H601325-27)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

100

True Value QC

400

RPD 3.92

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Bability and chent's exclusive remedy for any TRANS DESIGNATION OF LIABINGTY WITH DESIGNATIVE CONTINUES AND ADMINISTRATION OF THE PROPERTY O

alega Kame-

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 20



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, whirther based in contract or tore, shall be limited to the amount paid by cleint for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fable for incidental or consequential damages, including, without limitation, business interrupcions, loss of use, or loss of profits incurred by Clerit, its subsellances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above statud 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.

Colleg & Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 17 of 20



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

Company Name:	COR Oberating LTC						Ge			ANALYSIS REQUEST
Project Manager: [Dakota Neel			P.O. #:			┪			
Address: 2208 West Main	st Main			Company:	COG Operating LLC	aling LLC				
City: Artesia	State: NM	Z	Zip 88210	Attn:	Robert McNeill	Neil				
Phone #: (57	(575) 748-6930 Fax #:			Address:	600 W Illinois	linois				
Project #:	Project Owner:	7	60(G)	City:	Midland				_	
Project Name: CAN	CANVASBACK FED #2H			State: TX	Zip: 79701	3				
Project Location:				Phone #: (Phone #: (432) 221-0388				_	
Sampler Name: [Dakota Neel			Fax #:						
FOR USE ONLY			MATRIX	PRESERV	Y SAMPLING	NG G			5.00	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL	DATE	THE	втех	трн	Chloride	
1	S2- 1'			×	6/7/16	9:30 AM	×	×	×	
ىلە	S2- 2'			×	6/7/16	9:30 AM	×	×	×	
2	S2- 3*			×	6/7/16	9:30 AM	×	×	×	
4	S2- 4'			×	6/7/16	9:30 AM	×	×	×	
Š	S2- 6'			×	6/7/16	9:30 AM			×	
-6	S2-8'			×	6/7/16	9:30 AM			×	
۷.	S2- 10'			×	6/7/16	9:30 AM			×	
5	S2-12'			×	6/7/16	9:30 AM			×	
۵.	S2-14'			×	6/7/16	9:30 AM			×	

s. Please fax written changes to 575-393-2476 #195

Sample Condition
Cool Intact
UY: LIYES
NO IN NO

CHECKED BY:

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

S

Fax Result: U Yes C REMARKS: dneel2@concho.com lcarrasco@concho.com atrujillo@concho.com

Phone Result:

U Yes

U U N N

Add'l Phone #: Add'l Fax #:

Time:

Date: 6/15/2016



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

						CHECKED BY:	CHECKED E	tion	Sample Condition	Sampl		ω	مرا	Delivered By: (Circle One)	Delivered By:
													Time:		
		ā	no com	iconci pacon iconci	dneel2@concho.com lcarrasco@concho.com atrujiilo@concho.com	B	Empla Cabrera	8	9	35	Celve.	8	SIN	7.	Relinquished By:
	Add'I Fax #:	N 8	□ Yes	it: usult:	Phone Result:			- '		By:	Š	F	Date: 6/15/2016		21
				ľ	sons or otherwise	, business triansplants, loss of use, or loss of prefits incurred by t as of whether such claim is based upon any of the above stated to	no loss of p	hose of us	yaanuptana V such dae	, business of	regardes	g autros. Cardinal	questal demages, including without had a of services hereunder by Cardinal, map	serves in movert shall Cadrag be labby for incidental or consequential demagns, including selfcut involution, business trianniptions, base of use, or loss of people mounted by thirst, its subsequents and the selfcut incidents of the selfcut incidents of other labby to the selfcut incidents of the selfcut incid	service. In this event shad Co
				o de la companya de l	d by the olient to reampleton of t	to the emount par	off by ferniond by Cardinal 1	A See and a	d in cores	Test made			ent's cockases twinedy for	PLEASE NOTE: Landely and Dansagne. Cardena's habity and clear's exclusive ramedy for any clears arrang whether based in contract or text, whether breaked to the annual pad by the clear cause evaluation and the dependent universal range of received with a without the contract of the experiment of the	PLEASE NOTE: Labely an
		×			9:30 AM	6/7/16	×	1	1		Ŧ			S3-14 ¹	201-
		* ×	1		9:30 AM	6/7/16	×	İ	F	F		1		S3-12'	ב
		×			9:30 AM	6/7/16	×	I	Ė	F			9	S3- 10 ^a	è
		×	L	Ī	9:30 AM	6/7/16	×	L						S3-8'	<u>, </u>
		×		Ī	9:30 AM	6/7/16	×							S3- 6'	<u> </u>
		×	×	×	9:30 AM	6/7/16	×							\$3- 4	- 12
		×	×	×	9:30 AM	6/7/16	×							S3- 3'	ย
		×	×	Ť	9:30 AM	6/7/16	×							S3- 2'	
		×	×	Ť	9:30 AM	6/7/16	×							S3- 1'	7
		Chloride		BTEX	T ME	DATE	ICE / COOL OTHER:	OTHER :	OIL SLUDGE	WASTEWATER SOIL	# CONTAINERS GROUNDWATER	(G)RAB OR (C)OMP	Ď	Sample I.D.	Lab I.D.
					G	SAMPLING	PRESERV.	P	MATRIX	MA					FOR LAB USE DHLY
140							 	Fax #:	- 10					Dakota Neel	sampler Name:
						Phone #: (432) 221-0388	B#: (43)	Phon							roject Location:
			_		-	Zip: 79701		State: TX					x	CANVASBACK FED #2H	ame:
	i i i					Midland		City:				"	Project Owner:		Project #:
					RICH	Sionalli W 008	188	Address:					Fax #:	(575) 748-6930	hone #:
					eii	Robert McNeill		Attn:	0	88210	Zip		State: NM		ity: Artesia
			_		ing LLC	COG Operating LLC		Company:						2208 West Main	ddress: 2208
								P.O. #:						Dakota Neel	roject Manager:
	ANALISIS INCHOLOR		1	T		Of THE	100				ľ			COG Operating LLC	ompany Name:
	VAVI ACID BEOLIEST									l	ļ	١	V (212) 222 -	(3/3) 353-2320 FM	38787

5. Please fax written changes to 575-393-2476

Sampler - UPS - Bus - Other:



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

	5/5) 393-2326 FAX (3/3) 383-24/0	10) JUS-24	1		4				The second second	1					3	٦	TSHIORR		1		1	1	┙
Company Name:	COG Operating LLC				l la		100	77 10						ANALISIS	75	13		4]	1	7	+	⊥
Project Manager:	Dakota Neel				न	P.O. #:																	
Address: 2208 W	2208 West Main				្ត	Company:	any	COG Operating LLC	bing LLC							1.15		_				_	_
듦		State: NM		Zip 88210	2	Attn:		Robert McNeill	Jein								_			- 7			
**	(575) 748-6930 Fa	Fax#:			≥	Address:	SS	600 W Illinois	inois									_				- 1	
Project #:	Pr	Project Owner:	1.7		C	City:		Midland															
ame:	CANVASBACK FED #2H				S	State: TX	×	Zip: 79701					on ou					-		62		_	
Project Location:					TO	hone	#: (4	Phone #: (432) 221-0388									_					-	
Sampler Name:	Dakota Neel				7	Fax #:				300				15-			_					_	_
FOR LAB USE ONLY				MATRIX		PR	PRESERV.	SAMPLING	NG									7-					
Lab I.D.	Sample I.D.		G)RAB OR (C)OMP	CONTAINERS GROUNDWATER WASTEWATER SOIL DIL	SLUDGE OTHER:	ACID/BASE:	ICE/COOL OTHER:	DATE	TIME	BTEX	ТРН	Chloride											
0	S1-1'					_	×	6/7/16	9:30 AM	×	×	×	000			1	1	1			T	1	
2	S1-2 ¹						×	67/16	9:30 AM	×	×	×			Ī	-					Ť	,	
25	S1-3 ^a					-	×	6/7/16	9:30 AM	×	×	×		24 15 15		1	+				T	-	
p.	S1- 4'		100				×	6/7/16	9:30 AM	×	×	×			Ī	1	1				Ť	1	1
-22	S1-6 ¹					1	×	6/7/16	9:30 AM			×			Ī	+					T	-	
100	S1-8'						×	6/7/16	9:30 AM			×		Ī	1	1	_						
-55	S1- 10 ^o					1	×	6/7/16	9:30 AM			×		T		+						-	
<u>چ</u>	\$1-12'						×	6/7/16	9:30 AM			×		Ī		-	\perp				+	-	
97	\$1-14'					_		6/7/16	9:30 AM			×										\vdash	
PLEASE NOTE: Links and I amilyon. All claims. Including 1 service. In no exertainal Cards	PLEASE HOTE: Landay and Damages. Cardena's lobbby and dent's auchains remoty for any dates arrang should be beauth, should be the amount paid by the dent for the population and pay and the cardenal whole the population of the applicable service. As cleans including those for registerize and any other carde exhausterize that be described includes made in writing and received by Cardenal whole the cardenal or consequential damages, including without furnishing the service in the service of the cardenal be labeled for received by consequential damages, including without furnishing the cardenal beautiful for received to consequential damages, including without furnishing the service of the cardenal beautiful for received to consequential damages, including without furnishing the service of the cardenal beautiful for received to consequential damages, including without the service of the cardenal by th	uchase remedy for whatoseer shall be tal damages, include		an areng shuhur basad n co ad upand urban made h wite ad panad urban made h wite	4 4 4		O Card	to the amount period by profes trouved by	dbyes and to a completen of the		F					8 1	1						
Relinquished By:	nut of or related to the performance of the	Date: 6/15/2016	- 2	Received By:	_	\mathcal{A}	7		Phone Result: Fax Result: REMARKS:		□ Yes		S S	200	Add'l Phone #: Add'l Fax #:	** 3							
Relinquished By:	1	Time:	20	Reserved By		h.	9	abrers	dneei2@concho.com lcarrasco@concho.com atruiillo@concho.com	000 000 000 000 000	ncho.co	383 E8E											
Delivered By: (Circle One)	(Circle One)	2	-	Sample Condition	1 ditio	5	유	CHECKED BY:															

s. Please fax written changes to 575-393-2476

Sampler - UPS - Bus - Other: