



Robert Grubbs Jr.
Senior Environmental Coordinator

June 29, 2016

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

**Re: Crossman 25 State #1
30-15-38948
Sec. 24, T25S-R27E
Eddy County, NM**

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed closure report. The closure report is in response to the C-141 Initial report dated October 20, 2014.

Background

The release was caused by torrential rains that resulted in mass flooding. Flood waters washed tanks, debris, and pad material downstream. 280 bbls of oil and 100 bbls of produced water were lost and unrecoverable. GL Environmental Inc. (GLE) was contracted by the State Land Office to complete a site survey combined with a sampling and analysis of the affected portions of the draw. GLE identified one sample with elevated chloride concentrations on the pad through composite sampling of 3 discrete samples.

After discussions with OCD, COG conducted additional sampling on October 14, 2015 to further identify the areas of contamination at sample point T- 5 with discrete samples. (See attached map)

On January 21, 2016, COG met with Bradford Billings, Mike Bratcher and Heather Patterson in the Artesia, OCD District 2 office to discuss sample results and closure of this site. At this meeting, it was decided to install a temporary well in the vicinity of the T-5 sample location. A water sample will be collected from the temporary well and a surface water sample will be collected immediately upstream of the pad location.

On March 8, 2016, a temporary well (TW-1) was installed at the Crossman well pad. The well was completed to a total depth of approximately 21 feet below ground surface. The well was developed by installing a submersible pump into the well and purging approximately 40 gallons of water from the well. The purge water was stored onsite in a

CORPORATE ADDRESS
One Concho Center | 600 West Illinois Avenue | Midland, Texas 79701
PHONE 432.683.7443 | FAX 432.683.7441

LOCAL ADDRESS
Concho West | 2208 Main Street | Artesia, New Mexico 88210
PHONE 575.748.6940 | FAX 575.746.2096

NMOCD
June 29, 2016
Page 2

55 gallon drum. After development, the well was allowed to stabilize for approximately 48 hours.

On March 10, 2016, COG personnel met with SLO representatives at Crossman well pad. The temporary well was purged three (3) casing volumes of water with a clean disposable bailer. The well was allowed to recover while a surface water sample was collected from pooled water in the draw upgradient of the Crossman well pad. Once this sample was collected, a new disposable bailer was lowered into TW-1 and a sample collected. Both sets of samples were placed into laboratory supplied sample containers and placed on ice for transport to the laboratory for analysis of chlorides by EPA method 300.0.

Results of the sample analyses showed the water upgradient in the pooled surface water to contain 1,150 mg/L of chlorides. The sample from the temporary well (TW-1) exhibited a chloride concentration of 2,160 mg/L. These sample results were submitted to both OCD and SLO for review on March 18, 2016.

On April 1, 2016, COG received e-mail from Mr. Bradford Billings with the OCD stating that the sample results are consistent with historical and background chloride levels, and COG can plug and abandon the temporary well.

On April 12, 2016, the temporary well was plugged.

Soil Assessment and Analytical Results, and Engineered Berm

The pad area was divided into 5 quadrants for sampling purposes. Chloride concentrations were elevated in three of the sampling areas (T-2, T-3 and T-5) which were above the NMOCD's target of 1,000 mg/kg for the remediation of chlorides (see attached site diagram).

On February 11, 2016, COG met with Mr. Will Barnes and Mr. Robert Kasuboski with SLO at the Crossman well pad to discuss SLO requirements for an engineered berm for erosion control and reconstruction of the pad. On March 15, 2016, an engineered berm and reconstruction plan was submitted by Smith Engineering, a third party engineering firm to SLO for approval. On March 18, 2016, the reconstruction and engineered berm plan was approved by the SLO.

On April 1, 2016, Concho received an email from Bradford Billings with the OCD, stating that after concurrence with the SLO, OCD is requesting that the area of T-2 and T-3 be excavated to a depth of 2 feet, and the area of T-5 be excavated to a depth of 10 feet.

NMOCD
June 29, 2016
Page 3

Excavation, Pad Reconstruction and Engineered Berm Construction

From May 2, 2016 through June 9, 2016, COG excavated and disposed of contaminated materials as per following approved work plan.

T1 – No Excavation

T2 – Excavated 2', approximate 100' x 100' area

T3 – Excavated 2', approximate 100' x 100' area

T4 – No Excavation

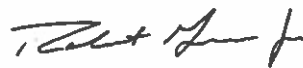
T5 – Excavated 10', approximate 75' x 100' area

After the excavation, the pad area was reconstructed to grade. An engineered berm was constructed around the pad area, as per SLO approved plan. SLO representatives were present during all work including excavation, confirmation field sampling, pad reconstruction and construction of the engineered berm.

COG Operating LLC requests closure for this site. Please feel free to contact me with any questions or concerns at (432) 661-6601.

Sincerely,

Robert Grubbs Jr.



Senior Environmental Coordinator

Enclosed

- (1) C-141 Final
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis
- (4) Photos

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company:	COG Operating LLC	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	Crossman 25 State #1H	Facility Type:	Tank Battery
Surface Owner:	State	Mineral Owner:	API No. 30-015-38948

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	25	25S	27E	330'	North	330"	East	Eddy

Latitude 32.1073265861973

Longitude 104.136404581729

NATURE OF RELEASE

Type of Release:	Oil and Produced Water	Volume of Release:	280 bbls Oil ; 100 bbls PW	Volume Recovered:	0 bbls Oil ; 0 bbls PW
Source of Release:	Flood waters washed battery away.	Date and Hour of Occurrence:	9/19/2014 11:00 am	Date and Hour of Discovery:	9/19/2014 11:00 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?	Robert McNeill	Date and Hour:	9/22/2014 8:00 am (phone call)		
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.*

Torrential rains caused flood waters to rise. Waters over ran the location, taking tanks and equipment away with the water. Most of the pad was taken away with the flood waters as well. Tanks and equipment was located approximately 2 miles further down the arroyo. The steel tanks were empty and the fiberglass tanks were torn apart.

Describe Area Affected and Cleanup Action Taken.*

The location has been excavated, an engineered berm has been installed and the pad has been brought back up to grade. The location has been down sized to allow the draw to flow more freely. All contaminated material has been hauled off to an approve disposal.

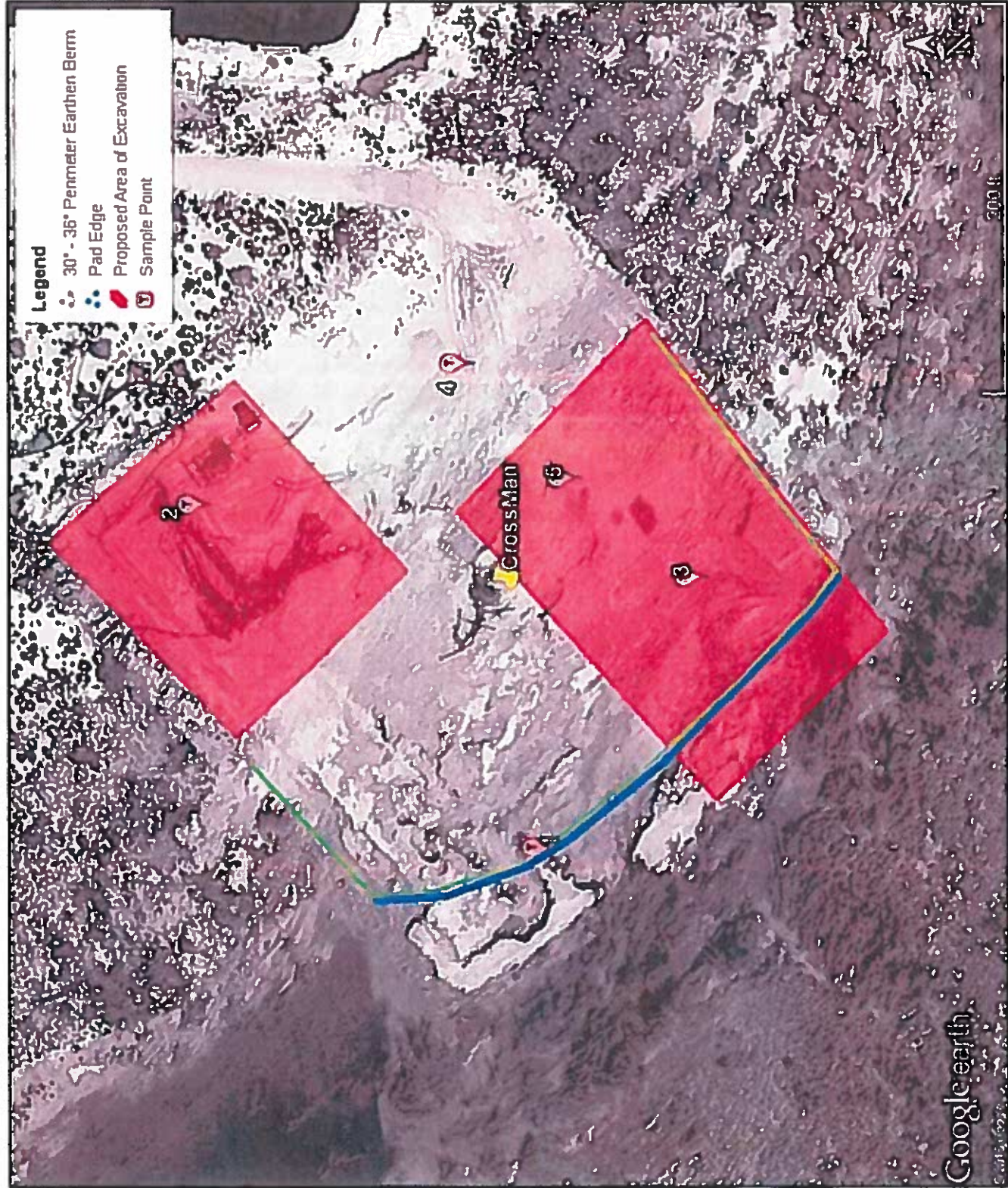
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:				OIL CONSERVATION DIVISION	
Printed Name:	Robert Grubbs Jr.			Approved by Environmental Specialist: 	
Title:	Senior Environmental Coordinator			Approval Date:	4/28/2023
E-mail Address:	rgrubbs@concho.com			Expiration Date:	
Date:	06-29-2016	Phone:	432-683-7443	Conditions of Approval:	Attached <input type="checkbox"/>

Attach Additional Sheets If Necessary

September 23, 2015

Crossman 25 State #1



Depth to GW per SEO: <50'

T1	DRO	CI-
0-1'	<50.0	490
2	<50.0	490
4	<50.0	196
6'	<50.0	196
8'	<50.0	392
10'	<50.0	94
T2	DRO	CI-
0-1'	<50.0	1970
2	<50.0	939
4	<50.0	751
6'	<50.0	563
8'	<50.0	188
10'	<50.0	94
T3	DRO	CI-
0-1'	<50.0	11,000
2	<50.0	1690
4	<50.0	282
6'	<50.0	190
8'	<50.0	397
10'	<50.0	<20
T4	DRO	CI-
0-1'	<50.0	474
2	<50.0	190
4'	<50.0	664
6'	<50.0	474
8'	<50.0	95
10'	<50.0	<20
T5	DRO	CI-
2	-	3400
4'	-	2360
6'	-	1510
8'	-	1600
10'	-	1980
12'	-	571

Bold values exceed RRALs





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750
 E-Mail lab@traceanalysis.com WEB www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Robert Grubbs
 COG Operating, LLC
 550 W. Texas Avenue
 Suite 100
 Midland, TX, 79701

Report Date: May 13, 2016

Work Order: 16051236



Project Location: Eddy Co, NM
 Project Name: Crossman 25 State Com #1
 Project Number: Crossman 25 State Com #1

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
419001	T-2 North Wall	soil	2016-05-10	00:00	2016-05-12
419002	T-2 South Wall	soil	2016-05-10	00:00	2016-05-12
419003	T-2 East Wall	soil	2016-05-10	00:00	2016-05-12
419004	T-2 West Wall	soil	2016-05-10	00:00	2016-05-12
419005	T-2 Bottom Hole 2'	soil	2016-05-10	00:00	2016-05-12
419006	T-3 Bottom Hole 2'	soil	2016-05-10	00:00	2016-05-12
419007	T-5 North Wall	soil	2016-05-11	00:00	2016-05-12
419008	T-5 South Wall	soil	2016-05-10	00:00	2016-05-12
419009	T-5 East Wall	soil	2016-05-10	00:00	2016-05-12
419010	T-5 West Wall	soil	2016-05-10	00:00	2016-05-12
419011	T-5 Bottom Hole 10'	soil	2016-05-10	00:00	2016-05-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc. uses the attached chain of custody (COC) as the laboratory check-in documentation which includes sample receipt, temperature, sample preservation method and condition, collection date and time, testing requested, company,

sampler, contacts and any special remarks.

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Johnny Grindstaff, Operations Manager

Report Contents

Case Narrative	4
Analytical Report	5
Sample 419001 (T-2 North Wall)	5
Sample 419002 (T-2 South Wall)	5
Sample 419003 (T-2 East Wall)	5
Sample 419004 (T-2 West Wall)	5
Sample 419005 (T-2 Bottom Hole 2')	6
Sample 419006 (T-3 Bottom Hole 2')	6
Sample 419007 (T-5 North Wall)	6
Sample 419008 (T-5 South Wall)	7
Sample 419009 (T-5 East Wall)	7
Sample 419010 (T-5 West Wall)	7
Sample 419011 (T-5 Bottom Hole 10')	7
Method Blanks	9
QC Batch 130074 - Method Blank (1)	9
QC Batch 130075 - Method Blank (1)	9
Laboratory Control Spikes	10
QC Batch 130074 - LCS (1)	10
QC Batch 130075 - LCS (1)	10
Matrix Spikes	11
QC Batch 130074 - MS (1)	11
QC Batch 130075 - MS (1)	11
Calibration Standards	12
QC Batch 130074 - ICV (1)	12
QC Batch 130074 - CCV (1)	12
QC Batch 130075 - ICV (1)	12
QC Batch 130075 - CCV (1)	12
Appendix	13
Report Definitions	13
Laboratory Certifications	13
Standard Flags	13
Attachments	13

Case Narrative

Samples for project Crossman 25 State Com #1 were received by TraceAnalysis, Inc. on 2016-05-12 and assigned to work order 16051236. Samples for work order 16051236 were received intact at a temperature of 26.8 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	110200	2016-05-13 at 09:35	130074	2016-05-13 at 10:18
Chloride (Titration)	SM 4500-Cl B	110201	2016-05-13 at 09:35	130075	2016-05-13 at 10:32

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 16051236 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 5 of 14
Eddy Co, NM

Analytical Report

Sample: 419001 - T-2 North Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<250	mg/Kg	5	50.0

Sample: 419002 - T-2 South Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<250	mg/Kg	5	50.0

Sample: 419003 - T-2 East Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			390	mg/Kg	5	50.0

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 6 of 14
Eddy Co, NM

Sample: 419004 - T-2 West Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			488	mg/Kg	5	50.0

Sample: 419005 - T-2 Bottom Hole 2'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<250	mg/Kg	5	50.0

Sample: 419006 - T-3 Bottom Hole 2'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<250	mg/Kg	5	50.0

Sample: 419007 - T-5 North Wall

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130074	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110200				

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 7 of 14
Eddy Co, NM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			293	mg/Kg	5	50.0

Sample: 419008 - T-5 South Wall

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 130074 Date Analyzed: 2016-05-13 Analyzed By: AM
Prep Batch: 110200 Sample Preparation: 2016-05-13 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			<250	mg/Kg	5	50.0

Sample: 419009 - T-5 East Wall

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 130074 Date Analyzed: 2016-05-13 Analyzed By: AM
Prep Batch: 110200 Sample Preparation: 2016-05-13 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			390	mg/Kg	5	50.0

Sample: 419010 - T-5 West Wall

Laboratory: Midland
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 130074 Date Analyzed: 2016-05-13 Analyzed By: AM
Prep Batch: 110200 Sample Preparation: 2016-05-13 Prepared By: AM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			293	mg/Kg	5	50.0

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 8 of 14
Eddy Co, NM

Sample: 419011 - T-5 Bottom Hole 10'

Laboratory:	Midland	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2016-05-13	Analyzed By:	AM
QC Batch:	130075	Sample Preparation:	2016-05-13	Prepared By:	AM
Prep Batch:	110201				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	u		<250	mg/Kg	5	50.0

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 9 of 14
Eddy Co, NM

Method Blanks

Method Blank (1) QC Batch: 130074

QC Batch: 130074
Prep Batch: 110200

Date Analyzed: 2016-05-13
QC Preparation: 2016-05-13

Analyzed By: AM
Prepared By: AM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<31.9	mg/Kg	50

Method Blank (1) QC Batch: 130075

QC Batch: 130075
Prep Batch: 110201

Date Analyzed: 2016-05-13
QC Preparation: 2016-05-13

Analyzed By: AM
Prepared By: AM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<31.9	mg/Kg	50

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 10 of 14
Eddy Co, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 130074
Prep Batch: 110200

Date Analyzed: 2016-05-13
QC Preparation: 2016-05-13

Analyzed By: AM
Prepared By: AM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2540	mg/Kg	5	2500	<160	102	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2540	mg/Kg	5	2500	<160	102	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 130075
Prep Batch: 110201

Date Analyzed: 2016-05-13
QC Preparation: 2016-05-13

Analyzed By: AM
Prepared By: AM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2360	mg/Kg	5	2500	<160	94	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2360	mg/Kg	5	2500	<160	94	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 11 of 14
Eddy Co, NM

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 419010

QC Batch: 130074
Prep Batch: 110200

Date Analyzed: 2016-05-13
QC Preparation: 2016-05-13

Analyzed By: AM
Prepared By: AM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2730	mg/Kg	5	2500	293	97	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2730	mg/Kg	5	2500	293	97	78.9 - 121	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 419011

QC Batch: 130075
Prep Batch: 110201

Date Analyzed: 2016-05-13
QC Preparation: 2016-05-13

Analyzed By: AM
Prepared By: AM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2560	mg/Kg	5	2500	<160	102	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2560	mg/Kg	5	2500	<160	102	78.9 - 121	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 12 of 14
Eddy Co, NM

Calibration Standards

Standard (ICV-1)

QC Batch: 130074

Date Analyzed: 2016-05-13

Analyzed By: AM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2016-05-13

Standard (CCV-1)

QC Batch: 130074

Date Analyzed: 2016-05-13

Analyzed By: AM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2016-05-13

Standard (ICV-1)

QC Batch: 130075

Date Analyzed: 2016-05-13

Analyzed By: AM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2016-05-13

Standard (CCV-1)

QC Batch: 130075

Date Analyzed: 2016-05-13

Analyzed By: AM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2016-05-13

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 13 of 14
Eddy Co, NM

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

Report Date: May 13, 2016
Crossman 25 State Com #1

Work Order: 16051236
Crossman 25 State Com #1

Page Number: 14 of 14
Eddy Co, NM

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

**6701 Aberdeen Ave., Ste B
Lubbock, Texas 79424
Tel (806) 794-1298
Fax (806) 794-1298
1 (800) 378-1296**

**5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313**

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name:		Concho		Phone #:		432-661-6801									
Address:		600 W Illinois Street		Fax #:											
Contact Person:		Robert Grubbs Jr		E-mail:		RGrubbs@concho.com									
Invoice to:		Concho		Project Name:		Crossman 25 State Com #1									
Project Location: (include state)		Eddy County, NM		Sampler Signature:		<i>Robert Grubbs</i>									
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
419001	T-2 North Wall	1	1/2	X									X	3/10	
002	T-2 South Wall	1	1	X									X		
003	T-2 East Wall	1	1	X									X		
004	T-2 West Wall	1	1	X									X		
005	T-2 Bottom Hole 2'	1	1	X									X		
006	T-3 Bottom Hole 2'	1	1	X									X		
007	T-5 North Wall	1	1	X									X	5/10	
008	T-5 South Wall	1	1	X									X	5/10	
009	T-5 East Wall	1	1	X									X		
010	T-5 West Wall	1	1	X									X		
011	T-5 Bottom Hole 10'	1	1	X									X		

Relinquished by: *Robert Grubbs* Date: 5-12-16 Company: Concho

Relinquished by: *Robert Grubbs* Date: 5-12-16 Company: Concho

Relinquished by: _____ Date: _____ Company: _____

Received by: *Robert Grubbs* Date: 5-12-16 Company: Concho

Received by: _____ Date: _____ Company: _____

Received by: _____ Date: _____ Company: _____

INST 12-1
OBS 25.2 °C
COR 26.8 °C

INST _____
OBS _____ °C
COR _____ °C

INST _____
OBS _____ °C
COR _____ °C

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: TA S-12-16 Date: 13:17 Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

INST 12-1
OBS 25.2 °C
COR 26.8 °C

INST _____
OBS _____ °C
COR _____ °C

INST _____
OBS _____ °C
COR _____ °C

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: TA S-12-16 Date: 13:17 Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

INST 12-1
OBS 25.2 °C
COR 26.8 °C

INST _____
OBS _____ °C
COR _____ °C

INST _____
OBS _____ °C
COR _____ °C

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: TA S-12-16 Date: 13:17 Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

INST 12-1
OBS 25.2 °C
COR 26.8 °C

INST _____
OBS _____ °C
COR _____ °C

INST _____
OBS _____ °C
COR _____ °C

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: TA S-12-16 Date: 13:17 Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

INST 12-1
OBS 25.2 °C
COR 26.8 °C

INST _____
OBS _____ °C
COR _____ °C

INST _____
OBS _____ °C
COR _____ °C

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: TA S-12-16 Date: 13:17 Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

INST 12-1
OBS 25.2 °C
COR 26.8 °C

INST _____
OBS _____ °C
COR _____ °C

INST _____
OBS _____ °C
COR _____ °C

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Company: TA S-12-16 Date: 13:17 Time: _____

Company: _____ Date: _____ Time: _____

Company: _____ Date: _____ Time: _____

Submission of samples constitutes agreement to Terms and Conditions

ORIGINAL COPY

Released to Imaging: 4/28/2023 9:58:24 AM



Photo 1. T-2 Excavation 2'



Photo 2. T-3 Excavation 2'



Photo 4. T-5 Excavation 10'



Photo 5. Pad Reconstruction



Photo 5. Engineered Berm

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 206730

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 206730
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Historical document upload. Closure approved.	4/28/2023