

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Chevron Environmental Management Co.	Contact	Matt Hudson
Address	1400 Smith Street Room 19001A	Telephone No.	(713) 372-1046
Facility Name	New Mexico O State #40	Facility Type	Reserve Pit API # 30-025-38140

Surface Owner	State of New Mexico	Mineral Owner		Lease No.	
---------------	---------------------	---------------	--	-----------	--

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	36	17 S	34 E	1885	South	1978	East	Lea

Latitude 32.789444 Longitude -103.511944

NATURE OF RELEASE

Type of Release	C141 submittal requested by L Johnson	Volume of Release	Unknown	Volume Recovered	Unknown
Source of Release	Reserve Pit	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	☐ Yes ☐ No ☒ Not Required	If YES, To Whom?			

By Whom?	Date and Hour
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
☐ Yes ☒ No	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Larry Johnson requested that a C141 be prepared for this location following a Site Inspection.

Describe Area Affected and Cleanup Action Taken.*
Per NMOCD directives, a reserve pit area of approximately 155' x 170' x 200' will be over-excavated and sampled. A remediation plan including analytical results and closure plan will be developed and submitted to the District 1 office for review and approval.

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:		
Printed Name: Matt Hudson			
Title: Project Manager	Approval Date:	Expiration Date:	
E-mail Address: mhudson@chevron.com	Conditions of Approval:		Attached ☐
Date:	Phone: 713-372-1046		

* Attach Additional Sheets If Necessary



**CONESTOGA-ROVERS
& ASSOCIATES**

2135 S. Loop 250 West
Midland, Texas 79703
Telephone: (432) 686-0086
www.CRAworld.com

Fax: (432) 686-0186

TRANSMITTAL

DATE: June 5, 2013

REFERENCE NO.: 073824

PROJECT NAME: NM "O" State NCT-1 #40 RP#2673

TO: Mr. Geoffrey R. Leking
New Mexico Oil Conservation District
1625 N. French Dr.
Hobbs, NM 88240

HOBBS OCD

JUN 05 2013

RECEIVED

Please find enclosed:

☐ Draft
☒ Originals
☐ Prints

☐ Final
☐ Other

Sent via:

☐ Mail
☐ Overnight Courier

☐ Same Day Courier
☐ Other

QUANTITY	DESCRIPTION
1	Status Report - Remediation/Closure Activities
1	CD of Status Report

☐ As Requested
☒ For Your Use

☐ For Review and Comment
☐
☐

COMMENTS:

Copy to: Mr. Kegan Boyer, CEMC

Completed by: Polly Dougless

[Please Print]

Signed: Polly Dougless

Filing: Correspondence File

HOBBS OCD

JUN 05 2013

RECEIVED



www.CRAworld.com



STATUS REPORT

Remediation/Closure Activities

New Mexico "O" State NCT-1 #40 RP#2673
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

Prepared for: Chevron Environmental Management
Company

Conestoga-Rovers & Associates
2135 South Loop, 250 West
Midland, Texas 79703

ORIGINAL

June 2013 • #073824



**CONESTOGA-ROVERS
& ASSOCIATES**

2135 South Loop, 250 West, Midland, Texas 79703
Telephone: (432) 686-0086 Fax: (432) 686-0186
www.CRAworld.com

June 5, 2013

Reference No. 073824

Mr. Geoffrey R. Leking
Environmental Engineer
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240

Re: Status Report - Remediation/Closure Activities
New Mexico "O" State NCT-1 #40 - RP#2673
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

Dear Mr. Leking:

Conestoga-Rovers and Associates (CRA), on behalf of Chevron Environmental Management Company (CEMC), is pleased to submit this Status Report on Remediation and Closure Activities for the New Mexico "O" State NCT-1 #40 (hereafter referred to as the "Site").

PROJECT INFORMATION

The subject location is located approximately 25 miles northwest of Hobbs, New Mexico (Figure 1). This project is associated with (reserve) pit closure activities at this well location and is further identified as the New Mexico "O" State NCT-1 #40, Unit J, Section 36, T17S, R34E. The original C-144 closure plan for this reserve pit was onsite burial, however, that approach was rejected by the New Mexico Oil Conservation Commission (NMOCD). After a site inspection by the NMOCD, the agency requested that a C-141 Release Notification and Corrective Action Form should be filed by Chevron and consequently, a Remediation Permit number (RP#2673) was assigned to this project. A copy of the initial C-141 Form is attached in Appendix A. Subsequent to a January 2011 meeting with the NMOCD, a Closure Request Work Plan prepared by CRA (3-10-11) was submitted to the agency. CRA, CEMC and the NMOCD met again on June 27, 2012 to discuss closure plans at this site which included removal of pit contents and sampling of the soils beneath the pit liner.

Field activities pertaining to the O State pit closure began on March 11, 2013. Soil samples were collected from 4 inches, 2 feet and 6 feet below the liner on March 13, 2013 using a backhoe. No hydrocarbons were detected above regulatory levels; however, chloride concentrations exhibited elevated concentrations well above recommended remediation and delineation levels.

Equal
Employment Opportunity
Employer



June 5, 2013

Reference No. 073824

The chloride concentrations for the 4 inch, 2 feet and 6 feet intervals were 10,500, 11,900 and 9,250 mg/kg, respectively. A total of 3,366 cubic yards of materials have been removed from the existing remedial excavation, with floor depths ranging from 4 to 10 feet.

On April 3, 2013, CRA and CEMC personnel met with Geoffrey Leking with the NMOCD to discuss the status of this pit closure project and to propose vertical delineation approaches in association with existing conditions at the Site. In the meeting, the NMOCD concurred that the installation of three soil borings within the excavation would provide an adequate assessment of the vertical profile at the Site.

SOIL ASSESSMENT ACTIVITIES

In May 2013, three soil borings (SB-1, SB-2, and SB-3) were installed within the existing remedial excavation to a depth of 100 feet bgs. Soil boring locations are presented in Figure 2. Soil boring logs are detailed in Appendix B. Soil samples were collected at 5 to 10 foot intervals in an effort to horizontally and vertically evaluate the extent of chloride impacts. Soil samples were collected and sent to Xenco Laboratories of Midland, Texas for chloride analyses using EPA Method 300. Copies of the certified laboratory reports and chain-of-custody documentation are attached in Appendix C. The soil borings were properly plugged with bentonite. May 2013 soil analytical results are summarized in Table I. Soil cross-section and chloride results are presented in Figure 3.

The following is a summary of the soil boring assessment activities:

- All three soil borings (SB-1, SB-2, and SB-3) demonstrate decreasing chloride levels with depth to well below recommended remediation and delineation levels
- SB-1 – demonstrated chloride levels below recommended delineation levels at 50 feet bgs (127 mg/kg), and decreasing to 70 feet bgs (69.8 mg/kg)
- SB-2 – demonstrated chloride levels below recommended delineation levels at 5 feet bgs (136 mg/kg), and decreasing to 70 feet bgs (108 mg/kg)
- SB-3 – demonstrated chloride levels below recommended delineation levels at 50 feet bgs (105 mg/kg), and decreasing to 70 feet bgs (29.8 mg/kg)



**CONESTOGA-ROVERS
& ASSOCIATES**

June 5, 2013

Reference No. 073824

3

CONCLUSIONS

Upon concurrence of acceptable vertical delineation by the NMOCD, the following closure tasks are recommended by CRA:

- Excavation shall be backfilled with imported clean materials (caliche and sandy soils) from approximately 4-10 feet to 4 feet below grade to ensure a uniform/level surface.
- Lay a 20 mil poly liner in excavated area and backfill remaining excavation with clean materials.
- Complete backfill activities utilizing clean top soil (1-2 ft.) and use of heavy machinery for grading purposes.
- Construction affected areas of pit floor/release site will be graded to match surface contours and seeded using mixtures utilized by local agencies such as the BLM, County Ag Agency and/or as directed by property owner.
- Submit a final C-141 form (spill release) and C-144 forms (pit closure) to the NMOCD summarizing closure activities.

If you have any questions or comments with regards to this Status Report on Remediation and Closure activities, please do not hesitate to contact our Midland office at (432) 686-0086.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

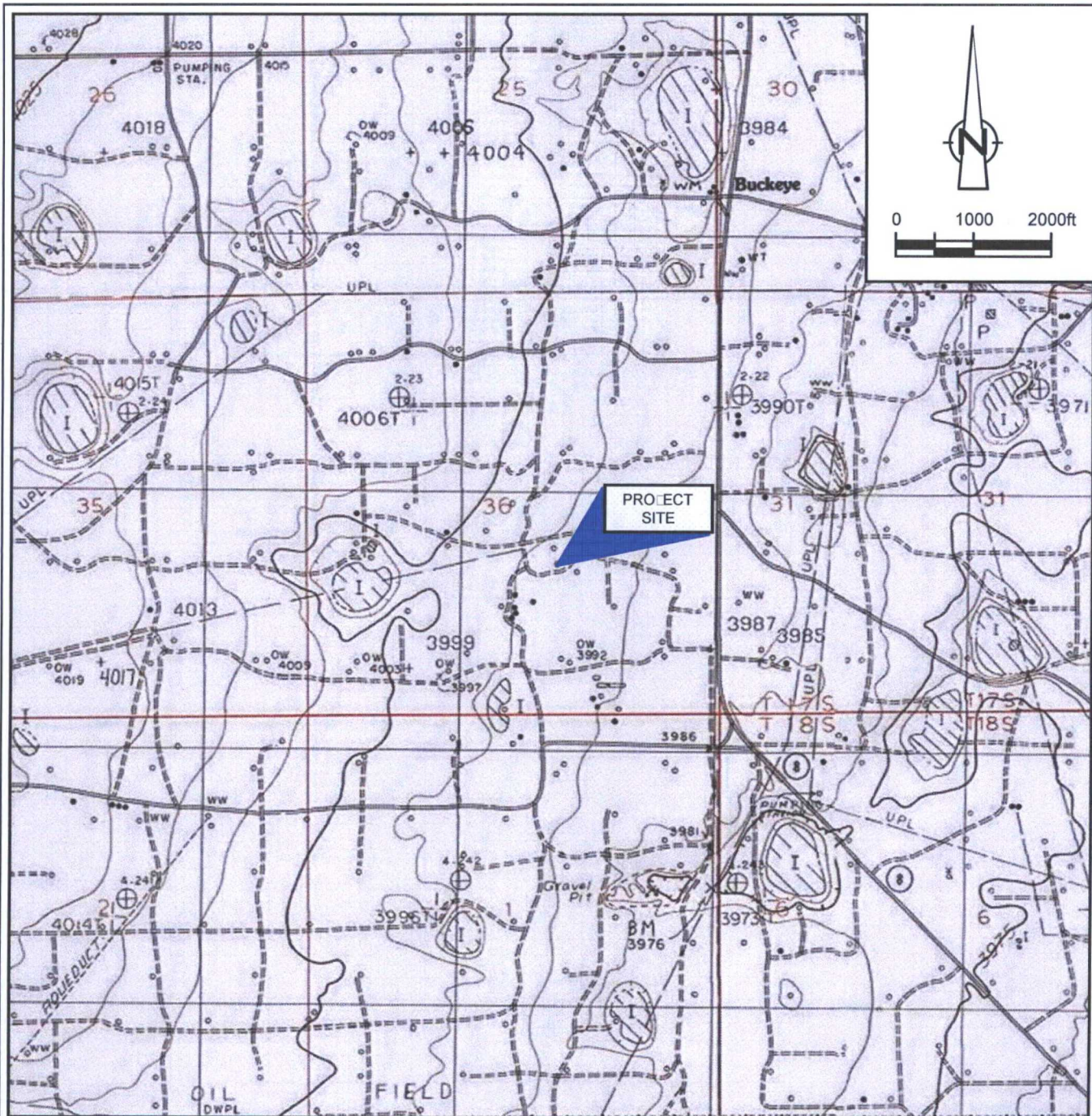
Thomas C. Larson
Midland Operations Manager

Jake Ferenz
Project Manager

JF/pd/1

Attachments: as stated

cc: client w/attachments



SOURCE: $\square$ SGS 7.5 MINUTE $\square$ AD
 "BUCKEYE AND LONGINGTON SW, NEW MEXICO"

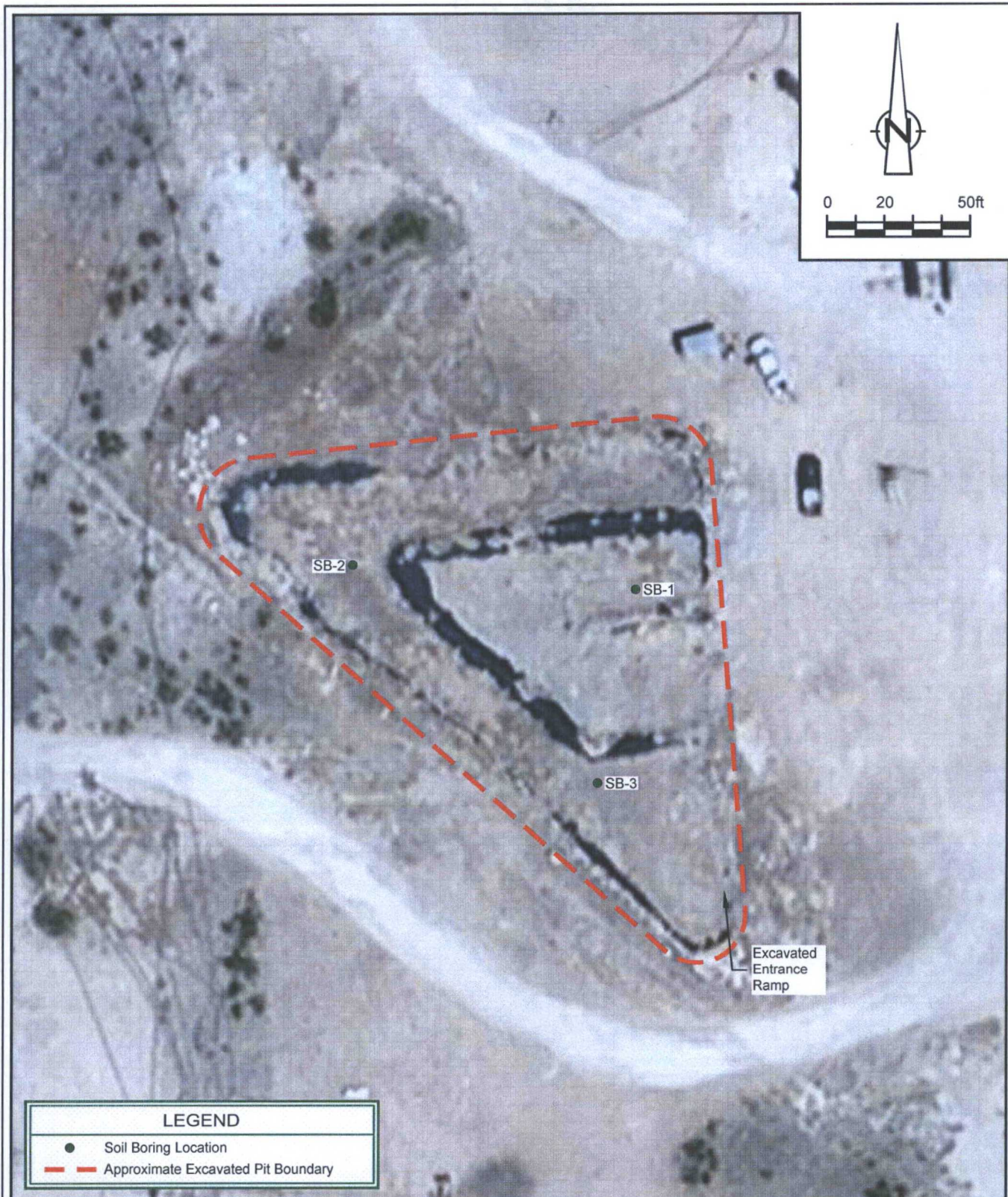
LAT/LONG: 32.7893° NORTH, 103.5123° WEST
 COORDINATE: NAD83 DATUM, U.S. FOOT
 STATE PLANE ZONE - NEW MEXICO EAST

figure 1

SITE LOCATION MAP
 NEW MEXICO "O" STATE #40 PIT
 SECTION 36, T17S, R34E (RP#2673)

Chevron Environmental Management Company





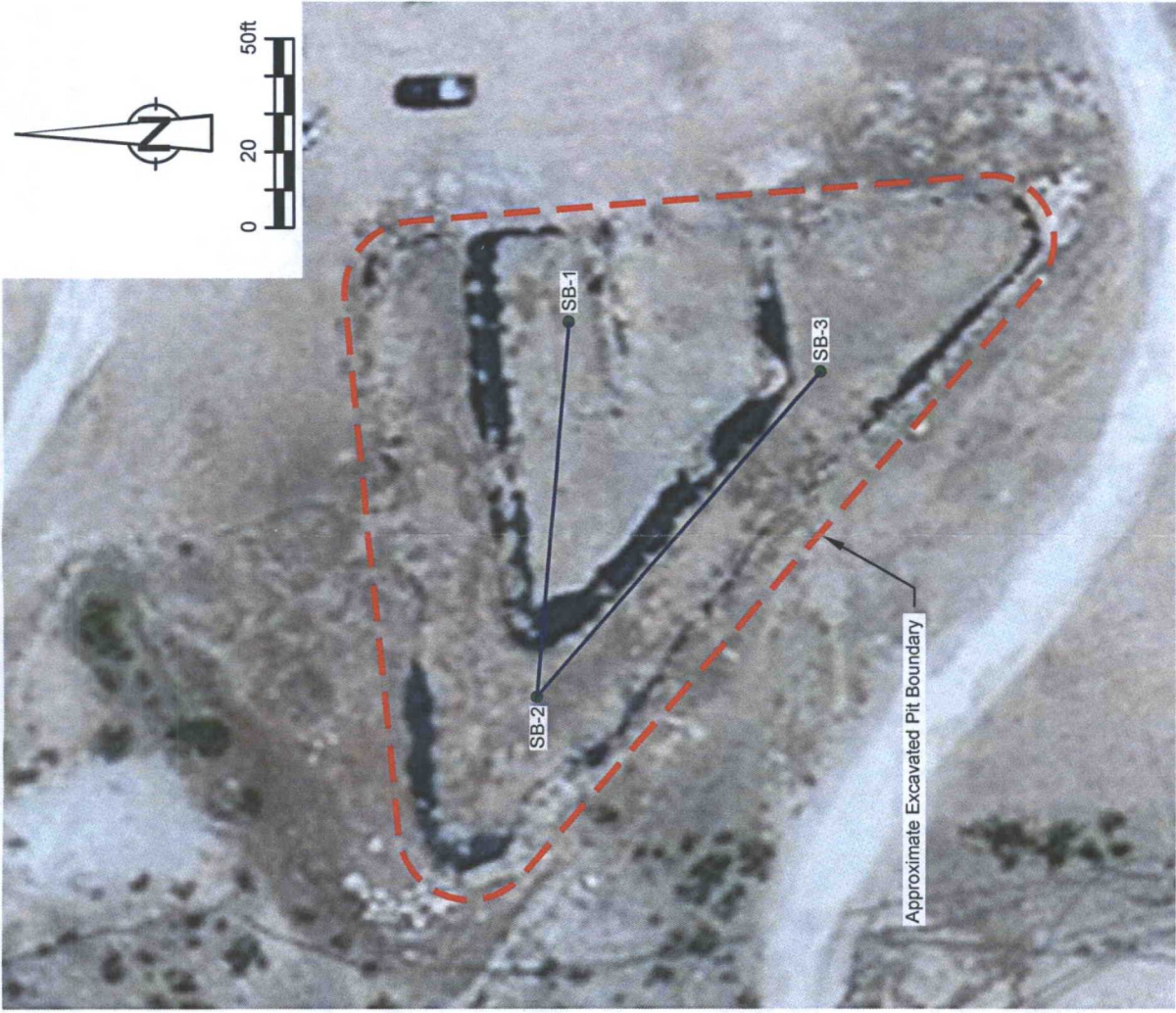
LAT/LONG: 32.7893° NORTH, 103.5123° WEST
 COORDINATE: NAD83 DATUM, U.S. FOOT
 STATE PLANE ONE - NEW MEXICO EAST

figure 2

SOIL BORING LOCATION MAP
 NEW MEXICO "O" STATE #40 PIT
 SECTION 36, T17S, R34E (RP#2673)

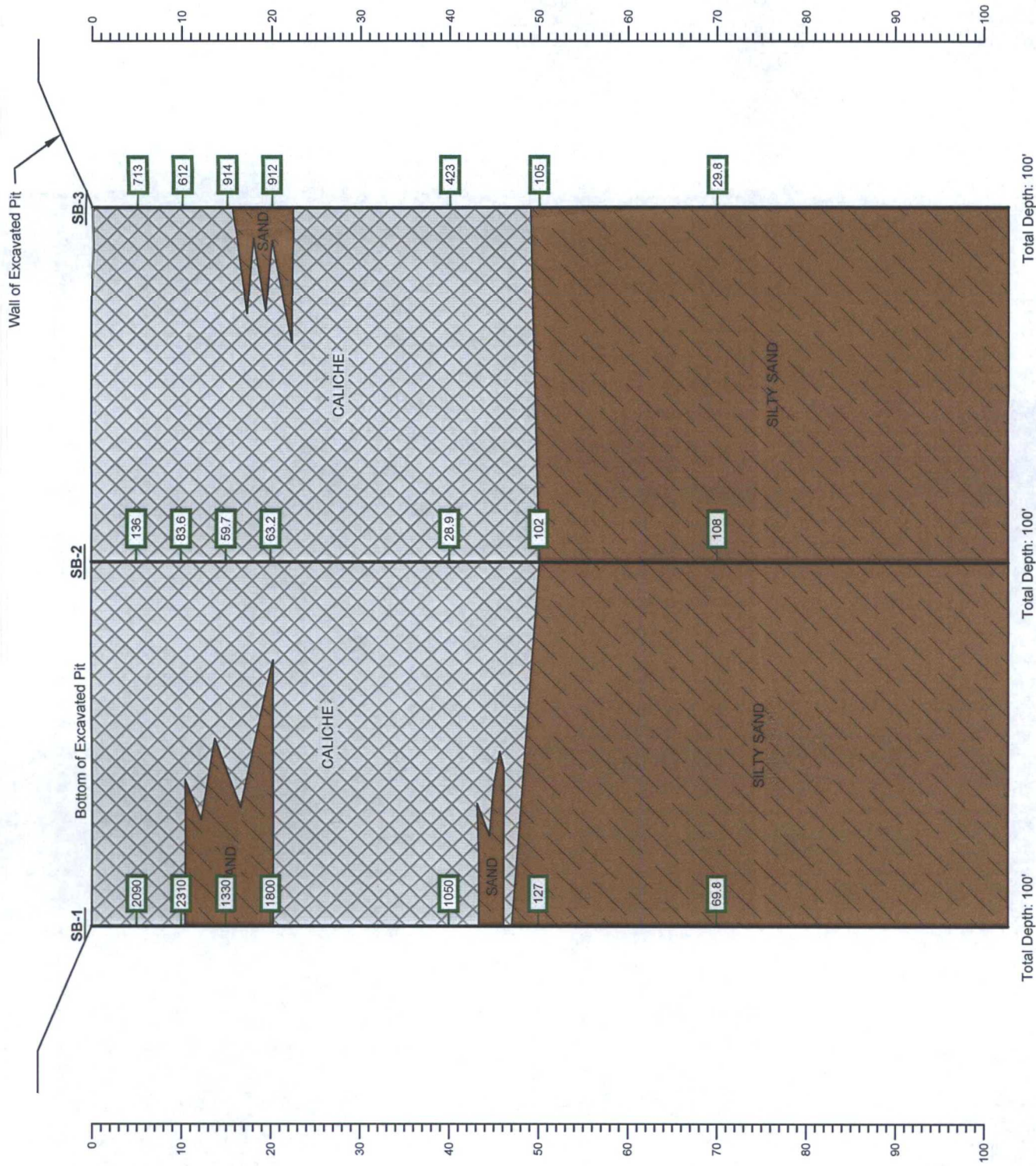
Chevron Environmental Management Company





NOTES:

- 1. Soil borings advanced May 7 and 8, 2013.
- 2. Samples evaluated using drill cuttings and split spoon sampler.
- 3. Boundaries between soil units are approximate.
- 4. Harrison & Cooper (Lubbock, Texas) drilling contractor. Six-inch borehole using Ingersol Rand 11RTH60 (2006) drill rig.
- 5. All borings plugged with drill cuttings and approximately 20 bags of bentonite.



SOIL DESCRIPTIONS

- CALICHE - White, tan, dry, indurated at top of unit. Dense to very dense, increasing in silty sands toward base of unit.
- SILTY SAND - Reddish brown, tan, firm to dense, moist toward bottom of unit.

figure 3
SOIL CROSS-SECTION
NEW MEXICO "O" STATE #40 PIT
SECTION 36, T17S, R34E (RP#2673)
Chevron Environmental Management Company



TABLE I

Soil Boring Analytical Summary
New Mexico O-State #40
Lea County, New Mexico

Sample ID	Sample Date	Depth (feet bgs)	Chloride
			(mg/kg)
NMOCD Recommended Remediation Action Levels			250
SB-1			
SB-1-5'	5/7/2013	5'	2,090
SB-1-10'	5/7/2013	10'	2,310
SB-1-15'	5/7/2013	15'	1,330
SB-1-20'	5/7/2013	20'	1,800
SB-1-40'	5/7/2013	40'	1,050
SB-1-50'	5/7/2013	50'	127
SB-1-70'	5/7/2013	70'	69.8
SB-1-90'	5/7/2013	90'	
SB-2			
SB-2-5'	5/8/2013	5'	136
SB-2-10'	5/8/2013	10'	83.6
SB-2-15'	5/8/2013	15'	59.7
SB-2-20'	5/8/2013	20'	63.2
SB-2-40'	5/8/2013	40'	28.9
SB-2-50'	5/8/2013	50'	102
SB-2-70'	5/8/2013	70'	108
SB-2-90'	5/8/2013	90'	
SB-3			
SB-3-5'	5/8/2013	5'	713
SB-3-10'	5/8/2013	10'	612
SB-3-15'	5/8/2013	15'	914
SB-3-20'	5/8/2013	20'	912
SB-3-40'	5/8/2013	40'	423
SB-3-50'	5/8/2013	50'	105
SB-1-70'	5/8/2013	70'	29.8
SB-3-90'	5/8/2013	90'	

Notes:

1. Chlorides analyzed by E300.0
2. Bold concentrations above lab reporting limits
3. Highlighted cells indicated above regulatory limits
4. Chloride - RRALs based on NMOCD September 30, 2011 (DRAFT) guidance Release Reporting and Corrective Actions Under Rule 29 & 30

SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-1

File No.: 73824
Date: 5/7/2013
Drilling Co.: Harrison and Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

LABORATORY TEST DATA					FIELD DATA			BORING DATA	
Results Reported in mg/kg					PID Reading PPM	Sampling	Depth (feet)	Water Level Screen Interval	
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)					
						(X)	5		Start Time: 14:30 Finish Time: 15:15
						(X)	10		Caliche: White, tan, hard/dense - very dense
						(X)	15		Caliche/Sandstone: light brown-tan, fine, dense
						(X)	20		
							25		
							30		
							35		Caliche/Sandstone: brown - increasing in sandstone
						(X)	40		

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

○ Analyzed Sample



SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-1

File No.: 73824
Date: 5/7/2013
Drilling Co.: Harrison & Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

LABORATORY TEST DATA					FIELD DATA			BORING DATA	
Results Reported in mg/kg					Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level Screen Interval	
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)					
							45		Sandstone: Light brown - dense to very dense
							50		Sand: Brown-red, fine
							55		
							60		Sand: Brown-red, silty sand (fine), moist
							65		
							70		
							75		
							80		

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

○ Analyzed Sample



SOIL BORING LOG			
Project:	New Mexico "O" State Soil Boring Assesment Activities		File No.:
	Unit J, Section 36, T17S, R34E		Date:
	Lea County, New Mexico	No. SB-1	Drilling Co.:
Client:	CEMC		Supervisor:
	Houston, Texas		Type Rig:
			Logged by:

LABORATORY TEST DATA					FIELD DATA				BORING DATA	
Results Reported in mg/kg					PID Reading PPM	Sampling	Depth (feet)	Water Level Screen Interval		
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)					Start Time:	Finish Time:
									Start Time: 14:30	Finish Time: 15:15
									Sand: Brown/red - silty, fine - moist	
									TD=100' P&A with 20 sacks of bentonite pellets - 5/7/13	

 Analyzed Sample

SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-2

File No.: 73824
Date: 5/8/2013
Drilling Co.: Harrison and Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

LABORATORY TEST DATA					FIELD DATA			BORING DATA	
Results Reported in mg/kg					PID Reading PPM	Sampling	Depth (feet)	Water Level Screen Interval	
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)					
									Start Time: 10:20 Finish Time: 11:05
						(X)	5		Caliche: White, tan, dense-very dense
						(X)	10		Caliche: White, tan, slightly dense
						(X)	15		
						(X)	20		
							25		Caliche: White, tan, less dense w/ rock fragments
							30		Caliche: Brown/tan w/ small rock fragments
							35		
						(X)	40		

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

○ Analyzed Sample



SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-2

File No.: 73824
Date: 5/8/2013
Drilling Co.: Harrison & Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

LABORATORY TEST DATA					FIELD DATA			BORING DATA	
Results Reported in mg/kg					Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)					
									Start Time: 10:20 Finish Time: 11:05
									Caliche: Brown/tan with small rock fragments
							45		Caliche: White/tan fine
									Sand: Light brown/brown, fine, moist
						X	50		
							55		
							60		
							65		
						X	70		
							75		
							80		

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

○ Analyzed Sample



SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-2

File No.: 73824
Date: 5/8/2013
Drilling Co.: Harrison and Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

[illegible]

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Analyzed Sample



SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-3

File No.: 73824
Date: 5/8/2013
Drilling Co.: Harrison and Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

LABORATORY TEST DATA					FIELD DATA				BORING DATA	
Results Reported in mg/kg					PID Reading PPM	Sampling	Depth (feet)	Water Level Screen	Interval	
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)						
						X	5			Start Time: 12 noon Finish Time: 12:25
										Caliche: Very dense, white/grey
										Caliche: Very dense, white-light brown
						X	10			Caliche: Very dense, white/tan
										Caliche: White - light brown, fine
						X	15			
										Caliche: w/ fine sand, brown-light brown
						X	20			
										Sand: Fine, brown
							25			
										Caliche: Tan, fine with small rock fragments
							30			
							35			
						X	40			Caliche: Light brown w/ small rock fragments

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

 Analyzed Sample



SOIL BORING LOG

Project: New Mexico "O" State Soil Boring Assesment Activities
Unit J, Section 36, T17S, R34E
Lea County, New Mexico

No. SB-3

File No.: 73824
Date: 5/8/2013
Drilling Co.: Harrison & Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Tom Larson

Client: CEMC
Houston, Texas

LABORATORY TEST DATA					FIELD DATA			BORING DATA	
Results Reported in mg/kg					Photo- ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)					
									Start Time: 12 noon Finish Time: 12:25
									Caliche: Light brown, w/ small rock fragments
									Caliche: Dense, white-tan
							45		Caliche: White, fine
						X	50		Sand: Brown, fine, moist
							55		
							60		
							65		
							70		
							75		
							80		

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

○ Analyzed Sample



SOIL BORING LOG			
Project:	New Mexico "O" State Soil Boring Assesment Activities		File No.:
	Unit J, Section 36, T17S, R34E		Date:
	Lea County, New Mexico	No. SB-3	Drilling Co.:
Client:	CEMC		Supervisor:
	Houston, Texas		Type Rig:
			Logged by:

[illegible] Analyzed Sample

Analytical Report 462766

for

Conestoga Rovers & Associates

Project Manager: Tom Larson

CEMC NM Ostate #40

073824

16-MAY-13

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

16-MAY-13

Project Manager: **Tom Larson**
Conestoga Rovers & Associates
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **462766**
CEMC NM Ostate #40
Project Address: New Mexico

Tom Larson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 462766. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 462766 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,



Kelsey Brooks
Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-1 5'	S	05-07-13 14:30		462766-001
SB-1 10'	S	05-07-13 14:35		462766-002
SB-1 15'	S	05-07-13 14:40		462766-003
SB-1 20'	S	05-07-13 14:45		462766-004
SB-1 40'	S	05-07-13 14:50		462766-005
SB-1 50'	S	05-07-13 14:55		462766-006
SB-1 70'	S	05-07-13 15:00		462766-007
SB-1 90'	S	05-07-13 15:10		462766-008
SB-2 5'	S	05-08-13 10:20		462766-009
SB-2 10'	S	05-08-13 10:25		462766-010
SB-2 15'	S	05-08-13 10:30		462766-011
SB-2 20'	S	05-08-13 10:35		462766-012
SB-2 40'	S	05-08-13 10:40		462766-013
SB-2 50'	S	05-08-13 10:45		462766-014
SB-2 70'	S	05-08-13 10:50		462766-015
SB-2 90'	S	05-08-13 11:05		462766-016
SB-3 5'	S	05-08-13 12:00		462766-017
SB-3 10'	S	05-08-13 12:05		462766-018
SB-3 15'	S	05-08-13 12:07		462766-019
SB-3 20'	S	05-08-13 12:10		462766-020
SB-3 40'	S	05-08-13 12:13		462766-021
SB-3 50'	S	05-08-13 12:15		462766-022
SB-3 70'	S	05-08-13 12:20		462766-023
SB-3 90'	S	05-08-13 12:25		462766-024



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates
Project Name: CEMC NM Ostate #40



Project ID: 073824
Work Order Number(s): 462766

Report Date: 16-MAY-13
Date Received: 05/09/2013

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-913663 Inorganic Anions by EPA 300/300.1
E300

Batch 913663, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 462766-004, -005, -014, -006, -013, -015, -017, -001, -002, -009, -012, -011, -007, -019, -020, -018, -003, -010.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



Project Manager: Kelsey Brooks

Analysis Requested		Lab Id:	462766-001	462766-002	462766-003	462766-004	462766-005	462766-006
		Field Id:	SB-1 5'	SB-1 10'	SB-1 15'	SB-1 20'	SB-1 40'	SB-1 50'
		Depth:						
		Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sampled:	May-07-13 14:30	May-07-13 14:35	May-07-13 14:40	May-07-13 14:45	May-07-13 14:50	May-07-13 14:55
Inorganic Anions by EPA 300/300.1		Extracted:	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	
		Analyzed:	May-10-13 22:10	May-10-13 22:54	May-10-13 23:15	May-10-13 23:37	May-10-13 23:59	May-11-13 00:20
		Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride			2090 42.8	2310 43.4	1330 20.9	1800 42.6	1050 21.2	127 4.17
Percent Moisture		Extracted:						
		Analyzed:	May-09-13 15:00	May-09-13 15:00	May-09-13 15:00	May-09-13 15:00	May-09-13 15:00	May-09-13 15:00
		Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture			6.51 1.00	7.80 1.00	4.27 1.00	6.00 1.00	5.52 1.00	4.06 1.00

Kelsey Brooks
Project Manager

Project Id: 073824

Contact: Tom Larson

Project Location: New Mexico

Date Received in Lab: Thu May-09-13 09:10 am

Report Date: 16-MAY-13

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	462766-007	462766-008	462766-009	462766-010	462766-011	462766-012
	Field Id:	SB-1 70'	SB-1 90'	SB-2 5'	SB-2 10'	SB-2 15'	SB-2 20'
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	May-07-13 15:00	May-07-13 15:10	May-08-13 10:20	May-08-13 10:25	May-08-13 10:30	May-08-13 10:35
Inorganic Anions by EPA 300/300.1	Extracted:	May-10-13 10:00		May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00
	Analyzed:	May-11-13 01:25		May-11-13 02:09	May-11-13 02:30	May-11-13 06:29	May-11-13 03:36
	Units/RL:	mg/kg RL		mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		69.8 4.17		136 4.32	83.6 4.38	59.7 4.22	63.2 4.21
Percent Moisture	Extracted:						
	Analyzed:	May-09-13 15:00	May-09-13 15:00	May-09-13 15:00	May-09-13 15:00	May-09-13 15:20	May-09-13 15:20
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		4.19 1.00	13.7 1.00	7.46 1.00	8.61 1.00	5.30 1.00	5.03 1.00

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Version: 1.5%

Kelsey Brooks

Kelsey Brooks
Project Manager



Date Received in Lab: Thu May-09-13 09:10 am

Report Date: 16-MAY-13

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	Extracted:	Analyzed:	Units/RL:	462766-013	462766-014	462766-015	462766-016	462766-017	462766-018
	SB-2 40'	SB-2 50'	SB-2 70'	SB-2 90'	SB-3 5'	SB-3 10'	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Inorganic Anions by EPA 300/300.1	May-08-13 10:40	May-08-13 10:45	May-08-13 10:50	May-08-13 11:05	May-08-13 12:00	May-08-13 12:05	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00
Chloride	May-11-13 03:57	May-11-13 04:19	May-11-13 04:41	May-11-13 06:07	May-11-13 06:07	May-11-13 06:07	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Percent Moisture	28.9	102	108	713	612	612	RL	RL	RL	RL	RL	RL	RL	RL
Percent Moisture	6.27	5.82	4.37	5.04	2.17	5.71	%	%	%	%	%	%	%	%

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Version: 1.5



Kelsey Brooks
Project Manager

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX



Project Id: 073824
 Contact: Tom Larson
 Project Location: New Mexico

Project Name: CEMC NM Ostate #40

Date Received in Lab: Thu May-09-13 09:10 am
 Report Date: 16-MAY-13

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	462766-019	462766-020	462766-021	462766-022	462766-023	462766-024
	SB-3 15'	SB-3 20'	SB-3 40'	SB-3 50'	SB-3 70'	SB-3 90'	SB-3 10'	SB-3 12'	SB-3 14'	SB-3 16'	SB-3 18'
Inorganic Anions by EPA 300/300.1	May-08-13 12:07	May-08-13 12:10	May-08-13 12:13	May-08-13 12:15	May-08-13 12:20	May-08-13 12:25	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00
Extracted:	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-10-13 10:00	May-11-13 06:51	May-11-13 09:23	May-11-13 10:06	May-11-13 10:28	May-11-13 10:28
Analyzed:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Units/RL:	914	912	423	105	29.8	29.8	RL	RL	RL	RL	RL
Percent Moisture	May-09-13 16:00	May-09-13 16:00	May-09-13 16:00	May-09-13 16:00	May-09-13 16:00	May-09-13 16:00	%	%	%	%	%
Percent Moisture	6.01	4.91	5.68	5.22	4.48	5.38	1.00	1.00	1.00	1.00	1.00

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Version: 1.0



Kelsey Brooks
 Project Manager

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-1 5'
Lab Sample Id: 462766-001**Matrix:** Soil
Date Collected: 05.07.13 14.30**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Tech:** AMB**Analyst:** AMB**Seq Number:** 913663**Prep Method:** E300P**% Moisture:** 6.51**Basis:** Dry Weight**Date Prep:** 05.10.13 10.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2090	42.8	mg/kg	05.10.13 22.10		20

Analytical Method: Percent Moisture**Tech:** SHSM**Analyst:** WRU**Seq Number:** 913378**% Moisture:****Basis:** Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	6.51	1.00	%	05.09.13 15.00		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-1 10'
Lab Sample Id: 462766-002

Matrix: Soil
Date Collected: 05.07.13 14.35

Date Received: 05.09.13 09.10

Analytical Method: Inorganic Anions by EPA 300/300.1
Tech: AMB
Analyst: AMB
Seq Number: 913663

Prep Method: E300P
% Moisture: 7.8
Basis: Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2310	43.4	mg/kg	05.10.13 22.54		20

Analytical Method: Percent Moisture
Tech: SHSM
Analyst: WRU
Seq Number: 913378

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	7.80	1.00	%	05.09.13 15.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-1 15'
Lab Sample Id: 462766-003**Matrix:** Soil
Date Collected: 05.07.13 14.40**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Tech:** AMB**Analyst:** AMB**Seq Number:** 913663**Prep Method:** E300P**% Moisture:** 4.27**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1330	20.9	mg/kg	05.10.13 23.15		10

Analytical Method: Percent Moisture**Tech:** SHSM**Analyst:** WRU**Seq Number:** 913378**% Moisture:****Basis:** Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.27	1.00	%	05.09.13 15.00		1

Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-1 20'	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id: 462766-004	Date Collected: 05.07.13 14.45	
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: AMB		% Moisture: 6
Analyst: AMB	Date Prep: 05.10.13 10.00	Basis: Dry Weight
Seq Number: 913663		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1800	42.6	mg/kg	05.10.13 23.37		20

Analytical Method: Percent Moisture		
Tech: SHSM		% Moisture:
Analyst: WRU		Basis: Wet Weight
Seq Number: 913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	6.00	1.00	%	05.09.13 15.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-1 40'
Lab Sample Id: 462766-005**Matrix:** Soil
Date Collected: 05.07.13 14.50**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Tech:** AMB**Analyst:** AMB**Seq Number:** 913663**Prep Method:** E300P**% Moisture:** 5.52**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1050	21.2	mg/kg	05.10.13 23.59		10

Analytical Method: Percent Moisture**Tech:** SHSM**Analyst:** WRU**Seq Number:** 913378**% Moisture:****Basis:** Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.52	1.00	%	05.09.13 15.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-1 50'
Lab Sample Id: 462766-006**Matrix:** Soil
Date Collected: 05.07.13 14.55**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Prep Method:** E300P**Tech:** AMB**% Moisture:** 4.06**Analyst:** AMB**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight**Seq Number:** 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	127	4.17	mg/kg	05.11.13 00.20		2

Analytical Method: Percent Moisture**Tech:** SHSM**% Moisture:****Analyst:** WRU**Basis:** Wet Weight**Seq Number:** 913378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.06	1.00	%	05.09.13 15.00		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-1 70'
Lab Sample Id: 462766-007

Matrix: Soil
Date Collected: 05.07.13 15.00

Date Received: 05.09.13 09.10

Analytical Method: Inorganic Anions by EPA 300/300.1
Tech: AMB
Analyst: AMB
Seq Number: 913663

Prep Method: E300P
% Moisture: 4.19
Basis: Dry Weight

Date Prep: 05.10.13 10.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	69.8	4.17	mg/kg	05.11.13 01.25		2

Analytical Method: Percent Moisture
Tech: SHSM
Analyst: WRU
Seq Number: 913378

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.19	1.00	%	05.09.13 15.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-1 90'
Lab Sample Id: 462766-008**Matrix:** Soil
Date Collected: 05.07.13 15.10**Date Received:** 05.09.13 09.10**Analytical Method:** Percent Moisture
Tech: SHSM
Analyst: WRU
Seq Number: 913378**% Moisture:**
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	13.7	1.00	%	05.09.13 15.00		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-2 5'
Lab Sample Id: 462766-009

Matrix: Soil
Date Collected: 05.08.13 10.20

Date Received: 05.09.13 09.10

Analytical Method: Inorganic Anions by EPA 300/300.1
Tech: AMB
Analyst: AMB
Seq Number: 913663

Prep Method: E300P
% Moisture: 7.46
Date Prep: 05.10.13 10.00
Basis: Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	136	4.32	mg/kg	05.11.13 02.09		2

Analytical Method: Percent Moisture
Tech: SHSM
Analyst: WRU
Seq Number: 913378

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	7.46	1.00	%	05.09.13 15.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-2 10'
Lab Sample Id: 462766-010**Matrix:** Soil
Date Collected: 05.08.13 10.25**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Tech:** AMB**Analyst:** AMB**Seq Number:** 913663**Prep Method:** E300P**% Moisture:** 8.61**Basis:** Dry Weight**Date Prep:** 05.10.13 10.00

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.6	4.38	mg/kg	05.11.13 02.30		2

Analytical Method: Percent Moisture**Tech:** SHSM**Analyst:** WRU**Seq Number:** 913378**% Moisture:****Basis:** Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	8.61	1.00	%	05.09.13 15.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id:	SB-2 15'	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	462766-011	Date Collected: 05.08.13 10.30	
Analytical Method:	Inorganic Anions by EPA 300/300.1	Prep Method: E300P	
Tech:	AMB	% Moisture: 5.3	
Analyst:	AMB	Date Prep: 05.10.13 10.00	Basis: Dry Weight
Seq Number:	913663		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	59.7	4.22	mg/kg	05.11.13 06.29		2

Analytical Method:	Percent Moisture		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis: Wet Weight	
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.30	1.00	%	05.09.13 15.20		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id:	SB-2 20'	Matrix:	Soil	Date Received:	05.09.13 09.10
Lab Sample Id:	462766-012	Date Collected:	05.08.13 10.35		
Analytical Method:	Inorganic Anions by EPA 300/300.1	Prep Method:	E300P		
Tech:	AMB	% Moisture:	5.03		
Analyst:	AMB	Date Prep:	05.10.13 10.00	Basis:	Dry Weight
Seq Number:	913663				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.2	4.21	mg/kg	05.11.13 03.36		2

Analytical Method:	Percent Moisture				
Tech:	SHSM	% Moisture:			
Analyst:	WRU	Basis:	Wet Weight		
Seq Number:	913378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.03	1.00	%	05.09.13 15.20		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-2 40'
Lab Sample Id: 462766-013**Matrix:** Soil
Date Collected: 05.08.13 10.40**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Prep Method:** E300P**Tech:** AMB**% Moisture:** 6.27**Analyst:** AMB**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight**Seq Number:** 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.9	4.27	mg/kg	05.11.13 03.57		2

Analytical Method: Percent Moisture**Tech:** SHSM**% Moisture:****Analyst:** WRU**Basis:** Wet Weight**Seq Number:** 913378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	6.27	1.00	%	05.09.13 15.20		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id:	SB-2 50'	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id:	462766-014	Date Collected: 05.08.13 10.45	
Analytical Method:	Inorganic Anions by EPA 300/300.1	Prep Method: E300P	
Tech:	AMB	% Moisture: 5.82	
Analyst:	AMB	Date Prep: 05.10.13 10.00	Basis: Dry Weight
Seq Number:	913663		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	102	4.25	mg/kg	05.11.13 04.19		2

Analytical Method:	Percent Moisture		
Tech:	SHSM	% Moisture:	
Analyst:	WRU	Basis: Wet Weight	
Seq Number:	913378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.82	1.00	%	05.09.13 15.20		1



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-2 70'	Matrix: Soil	Date Received: 05.09.13 09.10
Lab Sample Id: 462766-015	Date Collected: 05.08.13 10.50	
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech: AMB		% Moisture: 4.37
Analyst: AMB	Date Prep: 05.10.13 10.00	Basis: Dry Weight
Seq Number: 913663		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	4.18	mg/kg	05.11.13 04.41		2

Analytical Method: Percent Moisture	
Tech: SHSM	% Moisture:
Analyst: WRU	Basis: Wet Weight
Seq Number: 913378	

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.37	1.00	%	05.09.13 15.20		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-2 90'
Lab Sample Id: 462766-016

Matrix: Soil
Date Collected: 05.08.13 11.05

Date Received: 05.09.13 09.10

Analytical Method: Percent Moisture
Tech: SHSM
Analyst: WRU
Seq Number: 913386

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.04	1.00	%	05.09.13 16.00		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-3 5'
Lab Sample Id: 462766-017

Matrix: Soil
Date Collected: 05.08.13 12.00

Date Received: 05.09.13 09.10

Analytical Method: Inorganic Anions by EPA 300/300.1
Tech: AMB
Analyst: AMB
Seq Number: 913663

Prep Method: E300P
% Moisture: 2.17
Basis: Dry Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	713	20.4	mg/kg	05.11.13 06.07		10

Analytical Method: Percent Moisture
Tech: SHSM
Analyst: WRU
Seq Number: 913386

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	2.17	1.00	%	05.09.13 16.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-3 10'
Lab Sample Id: 462766-018**Matrix:** Soil
Date Collected: 05.08.13 12.05**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Prep Method:** E300P**Tech:** AMB**% Moisture:** 5.71**Analyst:** AMB**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight**Seq Number:** 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	612	10.6	mg/kg	05.11.13 02.52		5

Analytical Method: Percent Moisture**Tech:** SHSM**% Moisture:****Analyst:** WRU**Basis:** Wet Weight**Seq Number:** 913386

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.71	1.00	%	05.09.13 16.00		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-3 15' Matrix: Soil Date Received: 05.09.13 09.10
Lab Sample Id: 462766-019 Date Collected: 05.08.13 12.07
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Tech: AMB % Moisture: 6.01
Analyst: AMB Date Prep: 05.10.13 10.00 Basis: Dry Weight
Seq Number: 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	914	21.3	mg/kg	05.11.13 06.51		10

Analytical Method: Percent Moisture
Tech: SHSM % Moisture:
Analyst: WRU Basis: Wet Weight
Seq Number: 913386

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	6.01	1.00	%	05.09.13 16.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-3 20'
Lab Sample Id: 462766-020**Matrix:** Soil
Date Collected: 05.08.13 12.10**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Prep Method:** E300P**Tech:** AMB**% Moisture:** 4.91**Analyst:** AMB**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight**Seq Number:** 913663

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	912	21.0	mg/kg	05.11.13 07.12		10

Analytical Method: Percent Moisture**Tech:** SHSM**% Moisture:****Analyst:** WRU**Basis:** Wet Weight**Seq Number:** 913386

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.91	1.00	%	05.09.13 16.00		1



Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

CEMC NM Ostate #40

Sample Id: SB-3 40'
Lab Sample Id: 462766-021

Matrix: Soil
Date Collected: 05.08.13 12.13

Date Received: 05.09.13 09.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: AMB

% Moisture: 5.68

Analyst: AMB

Date Prep: 05.10.13 10.00

Basis: Dry Weight

Seq Number: 913664

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	423	10.6	mg/kg	05.11.13 09.23		5

Analytical Method: Percent Moisture

Tech: SHSM

% Moisture:

Analyst: WRU

Basis: Wet Weight

Seq Number: 913386

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.68	1.00	%	05.09.13 16.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-3 50'

Matrix: Soil

Date Received: 05.09.13 09.10

Lab Sample Id: 462766-022

Date Collected: 05.08.13 12.15

Analytical Method: **Inorganic Anions by EPA 300/300.1**

Prep Method: E300P

Tech: AMB

% Moisture: 5.22

Analyst: AMB

Date Prep: 05.10.13 10.00

Basis: Dry Weight

Seq Number: 913664

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	105	4.22	mg/kg	05.11.13 10.06		2

Analytical Method: **Percent Moisture**

Tech: SHSM

% Moisture:

Analyst: WRU

Basis: Wet Weight

Seq Number: 913386

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.22	1.00	%	05.09.13 16.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-3 70'
Lab Sample Id: 462766-023**Matrix:** Soil
Date Collected: 05.08.13 12.20**Date Received:** 05.09.13 09.10**Analytical Method:** Inorganic Anions by EPA 300/300.1**Prep Method:** E300P**Tech:** AMB**% Moisture:** 4.48**Analyst:** AMB**Date Prep:** 05.10.13 10.00**Basis:** Dry Weight**Seq Number:** 913664

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.8	4.19	mg/kg	05.11.13 10.28		2

Analytical Method: Percent Moisture**Tech:** SHSM**% Moisture:****Analyst:** WRU**Basis:** Wet Weight**Seq Number:** 913386

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	4.48	1.00	%	05.09.13 16.00		1

**Conestoga Rovers & Associates, Midland, TX**

CEMC NM Ostate #40

Sample Id: SB-3 90'
Lab Sample Id: 462766-024**Matrix:** Soil
Date Collected: 05.08.13 12.25**Date Received:** 05.09.13 09.10**Analytical Method:** Percent Moisture**Tech:** SHSM**Analyst:** WRU**Seq Number:** 913386**% Moisture:****Basis:** Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	5.38	1.00	%	05.09.13 16.00		1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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2505 North Falkenburg Rd, Tampa, FL 33619
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

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(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Conestoga Rovers & Associates

CEMC NM Ostate #40

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 913663

MB Sample Id: 638042-1-BLK

Matrix: Solid

LCS Sample Id: 638042-1-BKS

Prep Method: E300P

Date Prep: 05/10/2013

LCSD Sample Id: 638042-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.00	50.0	51.7	103	51.6	103	80-120	0	20	mg/kg	05/10/13 21:27	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 913664

MB Sample Id: 638044-1-BLK

Matrix: Solid

LCS Sample Id: 638044-1-BKS

Prep Method: E300P

Date Prep: 05/10/2013

LCSD Sample Id: 638044-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<2.00	50.0	50.3	101	52.3	105	80-120	4	20	mg/kg	05/11/13 08:39	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 913663

Parent Sample Id: 462766-001

Matrix: Soil

MS Sample Id: 462766-001 S

Prep Method: E300P

Date Prep: 05/10/2013

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	2090	1070	3410	123	80-120	mg/kg	05/10/13 22:32	X

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 913663

Parent Sample Id: 462766-018

Matrix: Soil

MS Sample Id: 462766-018 S

Prep Method: E300P

Date Prep: 05/10/2013

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	612	265	848	89	80-120	mg/kg	05/11/13 03:14	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 913664

Parent Sample Id: 462766-021

Matrix: Soil

MS Sample Id: 462766-021 S

Prep Method: E300P

Date Prep: 05/10/2013

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	Limits	Units	Analysis Date	Flag
Chloride	423	265	724	114	80-120	mg/kg	05/11/13 09:44	



Conestoga Rovers & Associates

CEMC NM Ostate #40

Analytical Method: Percent Moisture

Seq Number: 913378

Matrix: Solid

MB Sample Id: 913378-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	ND	%	05/09/13 14:00	

Analytical Method: Percent Moisture

Seq Number: 913386

Matrix: Solid

MB Sample Id: 913386-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	ND	%	05/09/13 16:00	

Analytical Method: Percent Moisture

Seq Number: 913378

Matrix: Soil

Parent Sample Id: 462621-005

MD Sample Id: 462621-005 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	11.1	10.6	5	20	%	05/09/13 14:00	

Analytical Method: Percent Moisture

Seq Number: 913386

Matrix: Soil

Parent Sample Id: 462766-016

MD Sample Id: 462766-016 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	5.04	4.87	3	20	%	05/09/13 16:00	

Company-City CRA M102AND		Phone 432-486-0086	
Project Name-Location CEML NM OSTATE#48		Project ID 073824	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other (NM)		Proj. Manager (PM) Tom Larson	
E-mail Results to t.larson@xenco.com		Fax No.:	
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.		Bill to: SEE SS&C C. KNIGHT CRA	
Quote/Pricing: P.O. No. ☐ Call for P.O.		Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP	
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER: MUCD		Special DLS (GW DW QAPP MDLs RLS See Lab PM Included Call PM)	
Sampler Name JAKE FERGUSON Signature Jake Ferguson			
Sample ID	Sampling Date	Time	Depth ft' in" m
1 SB-1 5'	5.7.13	2:30pm	5
2	10'	2:35	5
3	15'	2:40	5
4	20'	2:45	5
5	40'	2:50	5
6	50'	2:55	5
7	70'	3:00	5
8	90'	3:10	5
9	SB-2 5'	5:8.13	5
10	10'	5:8.13	5
Relinquished by (Initials and Sign) J-Ferguson		Date & Time 5.7.13 9:10am	Relinquished to (Initials and Sign) M113 9:10
Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O) Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)		Total Containers per COC: _____ Cooler Temp: 5.0 °C	
Composite		Grab	
# Containers		Container Size	
Container Type		Preservatives	
VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP C1 - Chlorides 300,000 PPA			
TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d			
Addn: PAH above mg/L W, mg/Kg S Highest Hit			
Hold Samples (Surcharges will apply and are pre-approved)			
Sample Clean-ups are pre-approved as needed			
Addn: Date Rcv. by: From:			

4143 Greenbrier Drive, Starford, TX 77477 281-240-4200
5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
12800 West I-20 East, Odessa, TX 79765 432-563-1800

Serial #: 330717 Page 2 of 3

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company/City: CEH MINDA		Phone: 432-646-0086									
Project Name/Location: CEMC ALM OSTATE #RD		Project ID: 073824									
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other: (CA)		Proj. Manager (PM):									
E-mail Results to: tlmason@cruciald.com		Fax No.:									
Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O. Bill to: SEE SSAD CC RUGLID - CEH		P.O. No.:									
Quote/Pricing:		☐ Call for P.O.									
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP											
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER: UNMCD											
Special DLS (GW DW QAPP MDLs RLS See Lab PM Included Call PM)											
Sampler Name: JAE FERRELL Signature: JAE FERRELL											
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	
1 SB-2 15'	5-8-13	10:35 AM	5	X	1	4oz	CC				
2 20'		10:35									
3 40'		10:40									
4 50'		10:45									
5 70'		10:50									
6 90'		11:05									
7 SB-3 5'		12:00 PM									
8 10'		12:05 PM									
9 15'		12:07									
10 20'	5-8-13	12:10									
Relinquished by (Initials and Sign):		Date & Time:		Relinquished to (Initials and Sign):		Date & Time:		Total Containers per COC:		Cooler Temp: 50 °C	
1) JAE FERRELL		5-9-13 5:11 PM		2) DRUG MA		5-9-13 5:10					
3) JAE FERRELL		5-9-13 5:11 PM		4) DRUG MA		5-9-13 5:10					
Preservatives: Various (V), HCl pH-2 (H), H2SO4 pH-2 (S), HNO3 pH-2 (N), Aspc Acid&NaOH (A), Zn&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O) Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V) Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L) Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, and maintenance and routine under Xenco's standard terms and conditions of service unless otherwise specifically negotiated under a fully executed client contract.											
Lab Only: TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data. VOA: Full-List BTEX-MTBE EtOH Oxyg VOHS VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP 5d - Chlorides 300, 0EPA TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S Highest Hit Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed Addn: Date Rcv. by: From:											

Company City: <u>CLP</u>		Phone: <u>432-686-7886</u>																											
Project Name-Location: <u>CLP ALI STATE #40</u>		Project ID: <u>093824</u>																											
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM):																											
E-mail Results to: <u>tlason@carworld.com</u>		Fax No:																											
Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.		Bill to: <u>SEE SCOW (C. Langst CLP)</u>																											
Quote/Pricing: P.O. No: ☐ Call for P.O.		Reg Program: <u>UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP</u>																											
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER: <u>ATWACH</u>		Special DLS (GW DW QAPP MDLS RLS See Lab PM Included Call PM)																											
Sampler Name: <u>WATERBOR</u> Signature: <u>[Signature]</u>																													
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHS VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks					
1	SB-3	40'	5-8-13	12:13			X	403 C	C																				
2		50'	5-8-13	12:15			X	403 C	C																				
3		70'	5-8-13	12:20			X	403 C	C																				
4		90'	5-8-13	12:25			X	403 C	C																				
5																													
6																													
7																													
8																													
9																													
10																													
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC:		Cooler Temp: <u>5.0</u> °C																			
1) <u>[Signature]</u>		5-9-13 9:11 AM		2) <u>[Signature]</u>		5/9/13 9:10																							
3) <u>[Signature]</u>				4) <u>[Signature]</u>																									
5) <u>[Signature]</u>				6) <u>[Signature]</u>																									

Preservatives: Various (N), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Aspc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)
Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)
Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and sequeine under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/09/2013 09:10:00 AM

Work Order #: 462766

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks

Kelsey Brooks

Date: 05/09/2013

Checklist reviewed by:

Kelsey Brooks

Kelsey Brooks

Date: 05/09/2013