		HOB	BSOCE)						
District I 1625 N. French	Dr., Hobbs, 1	NM 88240	0.0	St	ate of	New Mex	ico			Form C-141
District II 811 S. First St.,	Artesia, NM	88210 DCT	1620	13 Energy Mi	nerals	and Natura	l Resources			Revised August 8, 2011
District III 1000 Rio Brazo	s Road Azter	NM 87410		Oil C	Conser	vation Div	vision	Sub	mit 1 Copy	to appropriate District Office in cordance with 19 15 29 NMAC.
District IV	ois Dr. Sant	Ee NM 87505	ECEIVE	D 1220	South	St. Franc	is Dr.		ue	
1220 S. St. Flai	cis Di., Saina	a re, Nivi 87505		Sa	anta Fe	e, NM 875	05			
			Rele	ease Notific	catior	and Co	orrective A	ction	l	
						OPERAT	ГOR		🗌 Initia	ll Report 🛛 Final Report
Name of Co	ompany Ch 400 Smith	Street Room	onmental	Management C	Co.	Contact I	Kegan Boyer	705		
Facility Nat	ne New M	Mexico O Sta	ate #40			Facility Typ	e Reserve Pit	105		
Surface Ow	mer State	of New Me	xico	Mineral (Jwner				API No	30-025-38140
Surface of	ner state		Mee	LOC			EACE		1111110	
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	East/	West Line	County
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		*					102 510220			
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Was Immedia	ate Notice (Given?	Ves	No. Not R	equired	If YES, To	Whom?			
By Whom?					equireu	Date and H	Iour			
Was a Water	course Read	ched?	_			If YES, Vo	olume Impacting t	the Wate	ercourse.	
			Yes 🛛	No			-			
If a Watercou	urse was Im	pacted, Descri	ibe Fully.*	¢						
N/A										
Describe Cau	ise of Proble	em and Remed	dial Action	n Taken.*	c 11 .	C 1. T				
Larry Johnso	n requested	that a CI41 b	e preparec	for this location	followin	ng a Site Insp	ection.			
a financia di										
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Chevron Env	ironmental	Management	Company	documenting rem	nediation	and closure a	activities.	ga Rove	15 & A550C	lates (CRA) on behan of
	C .11	0				1			1.1.	
I hereby certi regulations al	ll operators	are required to	ven above o report an	is true and comp id/or file certain r	elease no	otifications ar	knowledge and und perform correct	nderstar	ons for rele	ases which may endanger
public health	or the envir	conment. The	acceptanc	e of a C-141 repo	ort by the	NMOCD ma	arked as "Final R	eport" d	oes not relie	eve the operator of liability
or the enviror	nment. In a	ddition, NMO	CD accep	investigate and r tance of a C-141	report do	bes not relieve	e the operator of i	eat to gr responsi	bility for co	mpliance with any other
federal, state,	or local lay	ws and/or regu	lations.		-			CEDU	ATIONI	
	1/	D					OIL CON	SERV	ATION .	DIVISION
Signature:	11 cym	17.57.0	-							
Printed Name	e: Kegan Bo	yer			1	Approved by	Environmental S	pecialist	Bra	adford Billings
Title: Project	t Manager					Approval Dat	e: 02/08/202 ²	1	Expiration I	Date:
E-mail Addre	ess: kegan h	over@chevro	n.com		(Conditions of	Approval:			
Data	In lin	- jer ajene i 10	Dham	(712) 272 7705	Ì		- pp. 5 mil			Attached
Date: 10	tional Shar	te If Nococc	Phone:	(/13) 3/2-//05						

* Attach Additional Sheets If Necessary

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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

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			Rel	ease Notific	cation	and Co	orrective A	ction			1.1.1
						OPERA	ГOR	🖂 Initi	al Report		Final Report
Name of Co	ompany (Chevron Env	ironment	al Management	Co.	Contact	Matt Hud	son			
Address	1	400 Smith S	treet Roc	m 19001A		Telephone 1	No. (713) 372	2-1046			2.5
Facility Nat	me N	lew Mexico	O State #	40]	Facility Typ	e Reserve F	it API # 3	0-025-381	40	4
Surface Ow	mer State	of New Mex	tico	Mineral C	Owner		10	Lease 1	No.		
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I hereby certi- regulations a public health should their o or the environ federal, state.	ify that the i ll operators or the envi operations h nment. In a , or local lay	information gi are required t ronment. The nave failed to a addition, NMC ws and/or regu	ven above o report an acceptance adequately OCD accept ilations.	e is true and comp nd/or file certain r ce of a C-141 repo investigate and r otance of a C-141	lete to the elease no ort by the emediate report do	the best of my otifications at NMOCD me contaminations not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	nderstand that purs tive actions for rel eport" does not rel eat to ground wate responsibility for c	suant to NM eases which ieve the ope r, surface wa ompliance v	OCD r may en rator of ater, hu with any	ules and ndanger f liability man health y other
	1000	U					OIL CON	SERVATION	DIVISIO	DN	12 1 1 1 1 1 1
Signature:							0.2.0011				
Printed Name	e: Matt	Hudson			4	Approved by	District Supervis	or:			
Title:	Proje	ct Manager				Approval Dat	e:	Expiration	Date:	-	Sec. 18
E-mail Addre	ess: mhuo	dson@chevroi	n.com			Conditions of	Approval:		Attached		

Date: Phone: 713-372-1046
* Attach Additional Sheets If Necessary

HOBBS OCD



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OCT 1 6 2013

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FINAL REPORT

Site Closure Report

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 September 2013 • #073824(3)



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- APPENDIX F WASTE MANIFEST

1.0 INTRODUCTION

This Site Closure Report provides documentation associated with corrective actions at the New Mexico "O" State #40, Lea County, New Mexico. The closure activities were documented and performed by Conestoga-Rovers & Associates (CRA) under the direction of Chevron Environmental Management Company (CEMC). A remediation permit number, RP 2673 was assigned to this project by the New Mexico Oil Conservation Division (NMOCD) Hobbs, New Mexico office. This report is an attachment to the Final C-141 Form submittal for RP #2673.

The Chevron New Mexico "O" State #40 (hereafter referred to as the "Site"), is located in Section 36 (Unit J), Township 17 South, Range 34 East, Lea County, New Mexico (Figure 1).

The scope of work for the subject corrective actions and corresponding activities was developed between CEMC, NMOCD and CRA personnel. CRA was responsible for the project management, general oversight of the reclamation activities and documentation of the field work. The agreed upon scope of services included:

- Obtaining proper site specific training, permits and involving appropriate stakeholders needed to conclude scope of work.
- Remove impacted soils excavated from the Site and transport to a Chevron approved waste facility.
- Implementation of a soil boring program consisting of three (SB-1, SB-2 and SB-3) soil borings to a depth of 100 feet.
- Lay poly liner in an excavated pit area and backfill the excavation pit using clean topsoil transported from an off-site source.
- Provide final backfilling, grading, ripping and seed dispersal for the affected area of the Site.
- Prepare Site Closure documents for submittal with the Final C-141 Release Notification and Corrective Action Form to the NMOCD requesting site closure.

2.0 SITE HISTORY / ASSESSMENT

On April 7, 2010 Chevron submitted a C-144 Form proposing pit closure. The original C-144 closure plan for this reserve pit was onsite burial, however, that approach was rejected by the NMOCD. The original C-144 Form is attached as in Appendix A. 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. The original C-141 Form is attached in Appendix B.

On January 11, 2011, CRA, CEMC and AECOM met at the NMOCD District I Hobbs office to discuss the path forward at the Site. Topics of discussion included modifications (waste excavation and removal vs. onsite trench burial) to the 2010 Closure Workplan and objectives necessary to close the pit as directed by the NMOCD District I Hobbs office.

Subsequent to the January 11, 2011 meeting between CRA, CEMC, AECOM and the NMOCD, a Closure Request Workplan prepared by CRA (April 13, 2011) on behalf of Chevron was submitted to the NMOCD.

Subsequent to the Closure Request Workplan prepared by CRA (April 13, 2011), CRA, Chevron (David Pagano) and Mr. Geoffery Leking met at the NMOCD District I Hobbs office on June 27, 2012 to discuss the path forward at the Site. Topics of discussion include the over-excavation of pit materials to depths of 4-5 feet, offsite disposal of pit materials to an NMOCD-permitted facility, delineation/confirmation sampling of excavation floor, subsurface (as appropriate), site restoration tasks as proposed in the workplan, backfilling, lining, grading, seeding, and closure documentation (C-141 final and C-144 pit closure) being submitted upon NMOCD concurrence of vertical delineation of the Site.

On March 13, 2013, CRA and Entact of Dallas, Texas mobilized to the Site to perform soil assessment activities. Heavy equipment was utilized to obtain soil samples from 4 inches, 2 feet, and 6 feet below the existing liner. No hydrocarbons were detected above the regulatory levels; however, chloride concentrations exhibited elevated concentrations well above recommended remediation and delineation levels. The chloride concentrations for the 4 inch, 2 feet and 6 feet intervals were 10,500, 11,900 and 9,250 mg/kg respectively.

On March 19, 2013, CRA and Entact mobilized to the Site to begin excavation activities. A total of approximately 3,366 cubic yards (cy) of material was removed from the existing remedial excavation, with floor depths ranging from 4-10 feet bgs.

In May 2013, after discussions and approval from the NMOCD Hobbs District I office, three soil borings (SB-1, SB-2, and SB-3) were installed within the existing remedial excavation to a depth of 100 feet below ground surface bgs. Soil samples were collected at 5 to 10 foot intervals in an effort to horizontally and vertically evaluate the extent of chloride impacts. All three soil borings SB-1 (70'-69.8 mg/kg), SB-2 (70'-108 mg/kg), and SB-3 (70'-29.8 mg/kg) demonstrated decreasing chloride levels with depth to well below recommended remediation and delineation levels. A soil boring analytical summary is provided in Table I. A soil cross section depicting subsurface conditions is provided in Figure 2. Certified Laboratory Reports for the 2013 soil sampling events are provided in Appendix E.

On June 5, 2013, Tom Larson with CRA and Kegan Boyer with CEMC met with NMOCD staff to finalize the Site's soil assessment and restoration activities. Discussions from the meeting included review of previous NMOCD communications, May 2013 soil boring delineation data, and remedial activities performed at the site to date. CRA, CEMC and NMOCD concluded that delineation efforts of chloride impacts have been reached, and closure/remediation efforts were acceptable and to proceed with backfilling and lining activities. In addition, Final C-141 and C-144 reports were to be completed and submitted to NMOCD upon completion of field activities.

3.0 CORRECTIVE ACTIONS

The field implementation of the approved site closure activities began on March 7, 2013. Entact of Dallas, Texas provided labor, heavy equipment and pit lining material. RWI of Hobbs, New Mexico provided haul trucks required for the field operations. CRA was responsible for the overall coordination of field operations, project management tasks and the safety of all CRA employees working on Site. The proposed and approved field work activities were completed on July 8, 2013. A Site Chronology of the daily work activities is provided in Appendix C. Site photographs documenting work activities are presented in Appendix D. Certified Laboratory Reports for the 2013 soil sampling events are provided in Appendix E.

3.1 LINING AND BACKFILLING OF REMEDIAL EXCAVATIONS

Restoration activities at the Site began on July 1, 2013 with the staging of heavy equipment near the borrow pit and excavated pit areas. Backfill of the excavated pit areas began on July 1, 2013. Installation of excavated pit liner (20 mil) started and was completed on July 5, 2013 by Entact. RWI transported approximately 4,032 cubic yards (cy) of clean fill that was obtained from an off-site borrow pit owned by the Pearce Ranch Trust. Backfill activities were concluded on July 8, 2013, with the Site being graded to minimize erosion, ripped with heavy machinery and seeded with a New Mexico native seed mixture (BLM#4). On July 9, 2013, equipment was demobilized from the Site. Site restoration activities and locations are depicted on Figure 3.

3.2 WASTE MANAGEMENT

CRA was responsible for managing waste associated with the 2013 project activities (3,366 cy). Controlled Recovery, Inc. (CRI) landfill was utilized as a disposal facility for impacted soils. CRI is an NMOCD and Chevron approved facility. The material was loaded into trucks provided by RWI. Each truck leaving the Site was provided with a uniquely numbered non-hazardous waste manifest to accompany each load. The manifest was signed by the generator (CEMC's agent), the transporter and finally by the CRI landfill's representative. Waste manifests utilized between March 20, 2013 and March 27, 2013 were labeled incorrectly with Central Vacuum Unit #342 information. Correspondence between CRA and CRI landfill on March 27, 2013 identified the incorrectly labeled manifests and addressed the issue, ultimately being resolved with the assistance of CRI landfill agents. Table II indicates the waste manifests that were incorrectly labeled with the Central Vacuum Unit #342. Table II also provides disposal volumes (in cubic yards), as well as manifest and vehicle numbers for the waste material that was transported off of the Site. Waste manifest (electronic) copies are attached to this report in a CD as Appendix F.

4.0 SUMMARY

The agreed upon scope of work and closure plan activities for the reclamation of the Chevron New Mexico "O" State #40, Lea County, New Mexico, has been completed (RP #2673). The following is a summary of project milestones and work performed:

- On April 7, 2010 Chevron submitted a C-144 Form proposing pit closure. 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.
- On January 11, 2011, CRA, CEMC and AECOM met at the NMOCD District I Hobbs office to discuss the path forward at the Site. Topics of discussions included modifications (waste excavation and removal vs. onsite trench burial) to the 2010 closure workplan and objectives necessary to close the pit as directed by the NMOCD District I Hobbs office.
- Subsequent to the January 11, 2011 meeting between CRA, CEMC, AECOM and the NMOCD - a Closure Request Workplan prepared by CRA (April 13, 2011) on behalf of Chevron was submitted to the NMOCD.
- Subsequent to the Closure Request Workplan prepared by CRA (April 13, 2011), CRA, Chevron (David Pagano) and Mr. Geoffery Leking met at the NMOCD District I Hobbs office on June 27, 2012 to discuss the path forward at the Site. Topics of discussion include the over-excavation of pit materials to depths of 4-5 feet, offsite disposal of pit materials to an NMOCD-permitted facility, delineation/confirmation sampling of excavation floor, subsurface (as appropriate), site restoration tasks as proposed in the workplan, backfilling, lining, grading, seeding and closure documentation (C-141 Final and C-144 Pit Closure) being submitted upon NMOCD concurrence of vertical delineation of the Site.
- On March 13, 2013, CRA and Entact of Dallas, Texas mobilized to the Site to perform soil assessment activities. Heavy equipment was utilized to obtain soil samples from 4 inches, 2 feet, and 6 feet below the existing liner.
- On March 19, 2013, CRA and Entact mobilized to the Site to begin excavation activities. A total of approximately 3,366 cubic yards (cy) of material was removed from the existing remedial excavation, with floor depths ranging from 4-10 feet bgs.
- 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 May 2013, after discussions and approval from the NMOCD Hobbs District I office, three soil borings (SB-1, SB-2 and SB-3) were installed within the existing

remedial excavation to a depth of 100 feet below ground surface bgs. All three soil borings SB-1 (70'-69.8 mg/kg), SB-2 (70'-108 mg/kg) and SB-3 (70'-29.8 mg/kg) demonstrated decreasing chloride levels with depth to well below recommended remediation and delineation levels.

- On June 5, 2013, Tom Larson with CRA and Kegan Boyer with CEMC met with NMOCD staff to review delineation results and to finalize the Site's soil assessment and restoration activities.
- On July 1, 2013, backfill activities began with RWI hauling clean backfill material to the reserve pit from an off-Site borrow pit provided by the Pearce Ranch Trust.
- On July 5, 2013, installation of the 20-mil poly liner was installed and backfilling activities commenced atop the liner.
- On July 8, 2013, backfill activities were concluded by returning the construction affected areas to existing grade. The Site was then ripped and seeded using an approved native grass seed mixture (BLM#4).
- On July 9, 2013, all equipment and personnel demobilized from the Site.

5.0 SITE CLOSURE REQUEST

This Site Closure Report provides documentation of the New Mexico "O" State #40 soil assessment activities involving the impacted soil areas and remedial correctional actions performed in accordance to the RP #2673. This report is an attachment to the Final C-141 Form submittal for RP #2673. Based on NMOCD communication and corrective actions performed to date, CRA, on behalf of CEMC, respectfully requests the NMOCD to rule that no further action for this site is warranted. This Site Closure Report concludes the scope of work for this project. Please feel free to contact the CRA Midland office if there are any questions or additional information is required.

All of Which is Respectfully Submitted,

CONESTOGA-ROVERS & ASSOCIATES

Thomas Clayon

Thomas C. Larson Midland Operations Manager

Jake Fing

Jake Ferenz Project Manager









Page 1 of 1

	1	TABLE I	
	SOIL BORING AI NEW MEXI LEA COUNT	NALYTICAL SUMMARY CO "O" STATE #40 TY, NEW MEXICO	
Sample ID	Sample Date	Depth (feet bgs)	Chloride
			(mg/kg)
NMOCD Recommend Levels (Total Ranking	500		
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'	NA
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'	NA
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'	NA

Notes:

1. Chlorides analyzed by E300.0

2. NA - indicates sample was not analyzed

3. Highlighted cells indicated concentrations above regulatory guidelines

4. Chloride - RRALs based on NMOCD September 30, 2011 (DRAFT) guidance

Release Reporting and Corrective Actions Under Rule 29 & 30

Page 1 of 5

	WA NEW M LEA CO	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/20/2013	13	487276	18
3/20/2013	13	487224	18
3/20/2013	13	487175	18
3/20/2013	151	487273	18
3/20/2013	151	487215	18
3/20/2013	151	487168	18
3/20/2013	5	487174	18
3/20/2013	5	487220	18
3/20/2013	5	487274	18
3/20/2013	720	487212	18
3/20/2013	720	487169	18
3/20/2013	720	487275	18
3/20/2013	7	487171	18
3/20/2013	7	487272	18
3/20/2013	7	487217	18
3/20/2013	7	487271	18
3/20/2013	7	487216	18
3/20/2013	7	487173	18
3/20/2013	10	487230	18
3/20/2013	10	487280	18
3/20/2013	10	487637	18
3/21/2013	13	· 487520	18
3/21/2013	13	487562	18
3/21/2013	13	487634	18
3/21/2013	151	487556	18
3/21/2013	151	487509	18
3/21/2013	151	487622	18
3/21/2013	5	487517	18
3/21/2013	5	487626	18
3/21/2013	5	487559	18
3/21/2013	720	487623	18
3/21/2013	720	487511	18
3/21/2013	720	487555	18
3/21/2013	7	487632	18
3/21/2013	7	487508	18
3/21/2013	7	487560	18
3/21/2013	7	487624	18
3/21/2013	7	487512	18
3/21/2013	7	487557	18
3/21/2013	10	487564	18
3/21/2013	10	*****	18

Page 2 of 5

	WA NEW M LEA CO	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO)
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/21/2013	10	487514	18
3/22/2013	13	487877	18
3/22/2013	13	487829	18
3/22/2013	13	487784	18
3/22/2013	151	487782	18
3/22/2013	151	487828	18
3/22/2013	151	487876	18
3/22/2013	5	487884	18
3/22/2013	5	487832	18
3/22/2013	5	487791	18
3/22/2013	1	487888	18
3/22/2013	720	487882	18
3/22/2013	720	487788	18
3/22/2013	720	487830	18
3/22/2013	7	487889	18
3/22/2013	7	487799	18
3/22/2013	7	*****	18
3/22/2013	7	487839	18
3/22/2013	7	487792	18
3/22/2013	7	487831	18
3/22/2013	12	487797	18
3/22/2013	12	487843	18
3/22/2013	12	487896	18
3/22/2013	1	487798	18
3/22/2013	1	487834	18
3/23/2013	13	488162	18
3/23/2013	13	488083	18
3/23/2013	13	488110	18
3/23/2013	151	488088	18
3/23/2013	151	488118	18
3/23/2013	151	488167	18
3/23/2013	5	488164	18
3/23/2013	5	488113	18
3/23/2013	5	488087	18
3/23/2013	720	488109	18
3/23/2013	720	488080	18
3/23/2013	720	488157	18
3/23/2013	7	488086	18
3/23/2013	7	488160	18
3/23/2013	7	488114	18
3/23/2013	7	488159	18

Page 3 of 5

	WA NEW M LEA CO	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO)
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/23/2013	7	488112	18
3/23/2013	7	488082	18
3/23/2013	12	488081	18
3/23/2013	12	488106	18
3/23/2013	12	488163	18
3/23/2013	1	488153	18
3/23/2013	1	488105	18
3/23/2013	1	488076	18
3/25/2013	13	488525	18
3/25/2013	13	488616	18
3/25/2013	13	488568	18
3/25/2013	151	488614	18
3/25/2013	151	488522	18
3/25/2013	151	488562	18
3/25/2013	5	488524	18
3/25/2013	5	488617	18
3/25/2013	5	488567	18
3/25/2013	720	488622	18
3/25/2013	720	488573	18
3/25/2013	720	488526	18
3/25/2013	7	488618	18
3/25/2013	7	488565	18
3/25/2013	7	488521	18
3/25/2013	7	488523	18
3/25/2013	7	488566	18
3/25/2013	7	488615	18
3/25/2013	12	488625	18
3/25/2013	12	488574	18
3/25/2013	12	488528	18
3/25/2013	1	488613	18
3/25/2013	1	488563	18
3/25/2013	1	488520	18
3/26/2013	13	488904	18
3/26/2013	13	488858	18
3/26/2013	13	488811	18
3/26/2013	151	488894	18
3/26/2013	151	488849	18
3/26/2013	151	488802	18
3/26/2013	5	488805	18
3/26/2013	5	488852	18
2/26/2012	5	188800	18

Page 4 of 5

	WA NEW M LEA CO	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/26/2013	720	488910	18
3/26/2013	720	488857	18
3/26/2013	720	488808	18
3/26/2013	7	488804	18
3/26/2013	7	488851	18
3/26/2013	7	488901	18
3/26/2013	7	488861	18
3/26/2013	7	488812	18
3/26/2013	7	488911	18
3/26/2013	12	488903	18
3/26/2013	12	488806	18
3/26/2013	12	488853	18
3/26/2013	1	488847	18
3/26/2013	1	488803	18
3/26/2013	1	488895	18
3/27/2013	1	489174	18
3/27/2013	1	489230	18
3/27/2013	1	489111	18
3/27/2013	5	489173	18
3/27/2013	5	489232	18
3/27/2013	5	489112	18
3/27/2013	7	489182	18
3/27/2013	7	489235	18
3/27/2013	7	489121	18
3/27/2013	12	489249	18
3/27/2013	12	489109	18
3/27/2013	12	489171	18
3/27/2013	13	489116	18
3/27/2013	13	489176	18
3/27/2013	13	489234	18
3/27/2013	151	489224	18
3/27/2013	151	489170	18
3/27/2013	151	489110	18
3/27/2013	720	489239	18
3/27/2013	720	489181	18
3/27/2013	720	489119	18
3/28/2013	5	489439	18
3/28/2013	7	489443	18
3/28/2013	7	489436	18
3/28/2013	12	489449	18
3/28/2013	13	489441	18

Page 5 of 5

	WA NEW M LEA CO	TABLE II STE INVENTORY EXICO "O" STATE #40 UNTY, NEW MEXICO	
DATE	TRUCK NUMBER	MANIFEST NUMBER	QUANTITY OF WASTE cubic yards
3/28/2013	151	489435	18
3/28/2013	720	489434	18
4/2/2013	5	490687	18
4/2/2013	5	490757	18
4/2/2013	5	490833	18
4/2/2013	7	490690	18
4/2/2013	7	490765	18
4/2/2013	7	490835	18
4/2/2013	7	490832	18
4/2/2013	7	490679	18
4/2/2013	7	490746	18
4/2/2013	10	490760	18
4/2/2013	10	490688	18
4/2/2013	10	490829	18
4/2/2013	13	490834	18
4/2/2013	13	490763	18
4/2/2013	13	490689	18
4/2/2013	151	490739	18
4/2/2013	151	490676	18
4/2/2013	151	490831	18
4/2/2013	720	490830	18
4/2/2013	720	490755	18
4/2/2013	720	490684	18
State State			Total: 3,366

Note:

1) Highlighted cells indicate waste manifest was originally labeled incorrectly with Central Vacuum Unit #342

2) ****** Indicates that haul load was received by R360 Environmental Solutions, but driver did not return

to site with ticket number



Rodney Bailey Environmental Advisor Chevron North America Exploration and Production Mid Continent Business Unit/HES 15 Smith Rd Midland, Texas 79705 Office 432-687-7123 Cell 432-894-3519 Fax 866-569-5650

April, 7 2010

Mr. Larry Johnson NMOCD District Office 1625 N. French Drive Hobbs, New Mexico 88240

Re: Drilling Pits; Central Vacuum Unit 342 and New Mexico O-40, Closure Plans; CVU 342, S 36, T 17S, R 34 E, API # 30-025-38002 NM O-40, S 36, T 17S, R 34 E, API # 30-025-38140

Chevron would like to submit this work plan for the closure of drilling pits CVU 342 and NM O-40. Also attached are Pit closure form C-144 for each location.

- Chevron will excavate each pit and liner and store the material adjacent to the excavation.
- The soil beneath the temporary pit will be sampled to determine whether a release has
 occurred. If a release has occurred Chevron will excavate or blend the soil till closure limits
 stated in 19.15.17.13.(B) (1) (b) (i) are reached.
- A 20 mil poly liner with welded seams will be placed in the excavation
- The previously excavated material will be returned to the pit, on top of the pit liner. The pit liner will be folded over the backfilled material. (original pit contents)
- A second pit liner will be placed on top of the back filled pit. Clean soil will be used as backfill on top of the liner. The center will be slightly mounded to promote rain water runoff and keep it from pooling in the center.
- · Area will be contoured to match surrounding area
- Area will be seeded with NMOCD approved seed.

Chevron will began closure of these drilling pits as soon as we receive NMOCD approval.

If you have any questions please call me at 432-687-7123.

Respectfully,

Kodning

Rodney Bailey Environmental Advisor Chevron North America

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

Form C-144 July 21, 2008

July 21, 200 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan Application	
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop below-grade tank, or proposed alternative method	d p system,
Instructions: Please submit are application (Form C-144) per individual pit closed-loop system below-arade tank or alternati	ve request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regula	water or the tions or ordinances.
Derator: Chevizon OGRID#:	
Address: 15 Smith Rd Midland to 79705	
Facility or well name: Now Moning 10-40	Sharka Markada Markada Anarawa Manazara na Arawa
API Number: 30-025- 38140 OCD Permit Number:	
Ull or Otr/Otr St. Section 3/ Township /75 Bange 34/ County /0.14	
Center of Proposed Design: Latitude	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	1927 [] 1905
2. PPit: Subsection For G of 1915 1711 NMAC	
Temporry Drilling [] Workeyer	
	in the second
Liner Seams: Welded D Factory Other Volume: bbl Dimensions: L x W	xD
	69 S. S. S.
Closed-loop System: Subsection H of 19.15.17.11 NMAC	100
istent)	mit or notice of
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
Liner Seams: Welded Factory Other	1 2 2 3
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: bbl Type of fluid:	
Tank Construction material:	
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
Visible sidewalls and liner Visible sidewalls only Other	
Liner type: Thickness mil C HDPE C PVC C Other	
Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other	
Visible sidewalls and liner Visible sidewalls only Other Liner type: Thickness mil HDPE PVC Other 5. Alternative Method: State State State State	
Visible sidewalls and liner Visible sidewalls only Other	on of groups and

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospiläi, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

10.

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.3.103 NMAC

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accumaterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drabove-grade tanks associated with a closed-loop system.	eptable source opriate district approval. ying pads or
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes 7 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Ves No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes 4 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes No
Within a 100-year floodplain.	Ves No

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15 Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that attached.	5.17.9 NMAC the documents are	
 Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 N Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection 0 	MAC .15.17.9 NMAC C of 19.15.17.9 NMAC	
and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:		
12. <u>Closed-loop Systems Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that	the documents are	
 attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.17 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection and 19.15.17.13 NMAC 	of 19.15.17.9 10 NMAC C of 19.15.17.9 NMAC	
Previously Approved Design (attach copy of design) API Number:		
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-	oop system that use	
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)		
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. 		
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed- Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for-temporary pits and closed-loop systems) Image: Tim-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau Image: Tim-place Burial On-site Trench Burial Vaste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	loop System for consideration) at be attached to the C MAC	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC		

^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	D NMAC) more than two	
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future se Yes (If yes, please provide the information below) No	rvice and operations?	
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	AC	
17. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable son provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dis considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	urce material are trict office or may be tifications and/or	
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No NA	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Pes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes TNo	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes 2 No	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual Inspection (certification) of the proposed site	Yes No	
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes ANO	
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	Yes I No	
Within a 100-year floodplain. - FEMA map	Yes A No	
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.		

Disposal radius radius radius for inquisis, annug radis and ann editings of in case of site
 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

0		
Dperator Application Certification:		
I hereby certify that the information submitted with this application is true, ac	curate and complete to the	best of my knowledge and belief.
Name (Print): Hodwey Briley	Title: Enu	Advisor
ignature: todaug Bearley	Date:	4-7-10
mail address: bailerg@chevrow.com	Telephone:	132-687-7123
DCD Approval: Permit Application (including closure plan) Closure	e Plan (only) 🗌 OCD C	onditions (see attachment)
OCD Representative Signature:		Approval Date:
Nitle:	OCD Permit Numbe	r:
a. <u>Closure Report (required within 60 days of closure completion)</u> : Subsective <u>Subsective</u> Subsective <u>Subsective</u> Subsective <u>Subsective</u> Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective Subsective <u>Subsective</u> Subsective Subsective <u>Subsective</u> Subsec	on K of 19.15.17.13 NMA or to implementing any clo of the completion of the cla e closure activities have be	C osure activities and submitting the closure report osure activities. Please do not complete this en completed.
	Closure Comple	ction Date:
 2. Closure Method: Waste Excavation and Removal On-Site Closure Method Alte If different from approved plan, please explain. 	ernative Closure Method [Waste Removal (Closed-loop systems only)
t. Closure Report Regarding Waste Removal Closure For Closed-loop Systemstructions: Please indentify the facility or facilities for where the liquids, on the facilities were utilized.	ms That Utilize Above G drilling fluids and drill cut	round Steel Tanks or Haul-off Bins Only: tings were disposed. Use attachment if more the
Disposal Facility Name:	Disposal Facility Per	nit Number:
Disposal Facility Name:	Disposal Facility Per	nit Number:
Vere the closed-loop system operations and associated activities performed or Yes (If yes, please demonstrate compliance to the items below)	n or in areas that will not be	used for future service and operations?
Required for impacted areas which will not be used for future service and open Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	rations:	
Re-vegetation Application Rates and Second Technique		
A. Closure Report Attachment Checklist: Instructions: Each of the following mark in the box, that the documents are attached.	g items must be attached to	o the closure report. Please indicate, by a check
 Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation 	re)	
 Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 	re)	
 Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Long 	ne) ngitude	NAD: 1927 1983
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Waste Material Sampling Analytical Results (required for on-site closure) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Lou s. Dependent Closure Certification:	re) ngitude	NAD: 1927 1983
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: LatitudeLon Soil Backfilling to cover installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: LatitudeLon Soil Backfilling to cover installation and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required to cover installation and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required to cover installation and attachments submitted with this closure belief.	ngitude nge report is true, accurate a irements and conditions spo	NAD: 1927 1983
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Lon So Derator Closure Certification: Inereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required the provided of the second sec	ngitude ne report is true, accurate a irements and conditions spe Title:	NAD: $1927 1983$ nd complete to the best of my knowledge and scified in the approved closure plan. Adviso2
Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closus Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Louiss Deperator Closure Certification: Chereby certify that the information and attachments submitted with this closus Delief. I also certify that the closure complies with all applicable closure required Name (Print): Contemport States of the stat	re) ngitude re report is true, accurate a irements and conditions spe Title: Date:	nd complete to the best of my knowledge and exified in the approved closure plan. Adwiso2 4-7-10

Site Chronology – New Mexico "O" State NCT-1 #40 Reserve Pit Restoration Project

Unit J, Section 36, T17S, R34E (RP#2673)

March 7, 2013	Performed GPR Survey of the peremeter of the reserve pit.
(Thursday)	Identified one underground utility (metal pipe)
March 12, 2013	Completed One Call and identified a pipeline adjacent to the
(Tuesday)	southwest side of the pit berm along with four above ground
	poly pipelines along the northwest corner of the pit stockpile
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	area. Pipelines were marked by Chevron Vacuum FMT.
Section Section 1	Hydro-vac potential underground utilities.
March 13, 2013	Received Vacuum FMT approval for Dig Plan to include soil
(Wednesday)	sampling and pit excavation. Completed soil sample collection
	within pit area.
March 18, 2013	CRA and Entact MOB to site. Equipment was brought on-site;
(Monday)	Entact installed signage and flagged off hazard areas.
March 19, 2013	Entact began back dragging pit material to one side of the
(Tuesday)	reserve pit. Material was excavated from immediately below
	the liner and stockpiled within the pit.
March 20, 2013	Entact began loading pit material within 20 cy belly dump
(Wednesday)	trucks. 7 dump trucks transported approximately 378 cy of pit
	material (within 3 trips) for disposal within CRI Landfill
	(Hobbs, NM). Total waste hauled off to date included 378 cy.
March 21, 2013	Entact continued to load pit material within 7-20 cy belly
(Thursday)	dump trucks. The trucks completed 3 trips, totaling 378 cy of
	pit material disposed within CRI Landfill. Total waste hauled
and himself in a	off to date includes 756 cys.
March 22, 2013	Entact continued to load pit material within 8-20 cy belly
(Friday)	dump trucks. The trucks completed 3 trips, totaling 432 cy of
	pit material disposed within CRI Landfill. Total waste hauled
	off to date includes 1,188 cys.
March 23, 2013	Entact continued to load pit material within 8-20 cy belly
(Saturday)	dump trucks. The trucks completed 3 trips, totaling 432 cy of
A CONTRACTOR	pit material disposed within CRI Landfill. Total waste hauled
Adapting Strate	off to date includes 1,620 cys.
March 25, 2013	Entact continued to load pit material within 8-20 cy belly
(Monday)	dump trucks. The trucks completed 3 trips, totaling 432 cy of
	pit material disposed within CRI Landfill. Total waste hauled
	off to date includes 2,052 cys.
March 26, 2013	Entact continued to load pit material within 8-20 cy belly
(Tuesday)	dump trucks. The trucks completed 3 trips, totaling 432 cy of
	pit material disposed within CRI Landfill. Total waste hauled
A STATE STATE	off to date includes 2,484 cys.
March 27, 2013	Entact continued to load pit material within 7-20 cy belly
(Wednesday)	dump trucks. The trucks completed 3 trips, totaling 378 cy of
and the second sec	pit material disposed within CRI Landfill. Total waste hauled

	off to date includes 2,862 cys.
March 28, 2013 (Thursday)	Entact continued to load pit material within 7-20 cy belly dump trucks. The trucks completed 1 trip, totaling 126 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 2,988 cys. Entact constructed entry/exit ramps within the excavated pit at the southeast end. Entact and CRA DMOB from site for Easter Holiday
March 29-31, 2013	Off for Easter Holiday
April 1, 2013 (Monday)	Entact and CRA MOB back to site. No loads hauled off site today.
April 2, 2013 (Tuesday)	Entact continued to load pit material within 7-20 cy belly dump trucks. The trucks completed 3 trips, totaling 378 cy of pit material disposed within CRI Landfill. Total waste hauled off to date includes 3,366 cys. Completed haul off of pit material.
April 3, 2013 (Wednesday)	Entact constructs entry/exit ramp at the northeast end of the excavated pit and levels excavated pit floor in preparation of the soil boring rig. Barricade excavation.
April 4, 2013 (Thursday)	Demob equipment and move trailer over to CVU 342 site.
April 25, 2013 (Thursday)	Performed site inspection and found barricade on west side of excavation was down. Contacted Entact (C. Bell) who came out and repaired barricade.
May 7, 2013 (Tuesday)	Receive Vacuum FMT approval of dig plan and excavation permit to work. CRA and Harrison and Cooper (H&C) mobilize to Site. SWA is issued for ramp construction. RWI performs dirt work/ramp construction. Completed sampling and soil boring (SB-1) within excavated pit.
May 8, 2013 (Wednesday)	Receive Vacuum FMT excavation permit to work. CRA and H&C mob to Site. Completed sampling and soil borings (SB-2 and SB-3) within the excavated pit.
June 5, 2013 (Wednesday)	CRA (Tom Larson) and Kegan Boyer (CEMC) mob to NMOCD District I, Hobbs office for meeting regarding closure activities.
June 29, 2013 (Saturday)	Mobilization of equipment from CVU-342 to O-State occurred today. Ready for work start 07/01/13.
July 1, 2013 (Monday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. SWA is initiated due to weather. Trucks are sent home. Backfill using stockpile material commenced today. Stockpile material has been utilized to completion of backfill activities for day. Site secured at EOD.
July 2, 2013 (Tuesday)	 On-Site personnel attend FMT briefing meeting. Receive FMT PTW. RWI on-site w/ 4 trucks. Backfill activities begin w/ loads from borrow pit location. 62 loads of material today. 1116 cy of material to date. Site secured at EOD.
July 3, 2013 (Wednesday)	On-Site personnel attend FMT briefing meeting. Receive FMT PTW. RWI on-site w/ 4 trucks. Down time for trucks today, due to Dozer catch-up. Dirt work for preparation to lay liner.

Inly 3 2012	Pit is ready for liner install on July 5th 24 truckloads hauled
July 5, 2015	to day totaling 422 ay today and 1548 ay having to date Cite
(vvednesday)	today, totaling 432 cy today and 1546 cy named to date. Site
	secured at EOD.
July 4, 2013	NO WORK TODAY – JULY 4 th HOLIDAY
(Thursday)	
July 5, 2013	On-Site personnel attend FMT briefing meeting. Receive FMT
(Friday)	PTW. RWI on-site w/ 4 trucks. Liner installation began and
	was completed today. Backfilling activities resumed. Total of
	56 truckloads hauled today, totaling 1008 cy for day, and 2556
and the second states	cy hauled to date.
July 6, 2013	On-Site personnel attend FMT briefing meeting. Receive FMT
(Saturday)	PTW. RWI on-site $w/4$ trucks. Dozer having trouble keeping
	up with truckloads, trucks slowed down. Worked an extra
	hour today. Backfill complete. Topsoil haul start tomorrow. A
	total of 56 truckloads hauled today, totaling 1008 cy for day.
	and 3564 cy hauled to date.
July 8, 2013	On-Site personnel attend FMT briefing meeting. Receive FMT
(Monday)	PTW RWI on-site w/4 trucks Hauling of topsoil is completed
(monday)	today A total of 26 loads 9 per truck where hauled today End
	of day haul total is 468 or. This marks the end of backfilling
	of day flatt total is 400 cy. This flatks the end of backfinning
and the second second	activities. Total project backfill hauled to date is 4,032 cy. Site
and the second second	has been graded and seeded w/ BLM #4 seed mixture. Demob
See Share Street	of machines will take place July 9, 2013. Site is clean and
Section 1	secure.



PHOTO 1: View of reserve pit facing north before any remedial work activities



PHOTO 2: View of reserve pit facing south before any remedial work activities





PHOTO 3: View of excavation/waste removal activities



PHOTO 4: View of excavation/waste removal activities facing southwest





PHOTO 5: View of excavated reserve pit facing south



PHOTO 6: View of excavated pit and entrance ramp facing north





PHOTO 7: View of drill rig inside excavated reserve pit facing north



PHOTO 8: View of backfill activities facing north





PHOTO 9: View of backfill activities facing west



PHOTO 10: View of backfilling activities facing south





PHOTO 9: View of backfill ready for 20 mil poly liner installation facing northwest



PHOTO 11: View of 20 mil poly liner installation facing southeast





PHOTO 12: View of 20 mil poly liner installation/backfill facing northwest



PHOTO 13: View of final grading and seeding activities facing north


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ANALYTICAL RESULTS

Prepared by:

Lancaster

Laboratories

Prepared for:

Analysis Report

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

March 19, 2013

Project: NM "O" State

Submittal Date: 03/15/2013 Group Number: 1375688 PO Number: 4056668 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description CVX-NMO-02 Composite Soil

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Lancaster Labs (LLI) # 6984188

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO ELECTRONIC COPY TO Conestoga-Rovers & Associates Conestoga-Rovers & Associates Attn: Ryan Kainer

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Konn

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257

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Lancaster Laboratories

Analysis Report

LLI Sample # SW 6984188

11713

LLI Group # 1375688

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Sample Description: CVX-NMO-02 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 16:30 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:26

Conestoga-Rovers & Associates

Account

Conestoga-Rovers & Associa 13091 Pond Springs Road Austin TX 78729

NMO02

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor	
GC Vo	latiles	SW-846	8015B	mg/kg	mg/kg		
01638	TPH-GRO soil C6-C10		n.a.	1.7	1.1	25.41	
GC Vo	latiles	SW-846	8021B	mg/kg	mg/kg		
08179	Benzene		71-43-2	0.0055 J	0.0056	25.41	
08179	Ethylbenzene		100-41-4	0.023	0.0056	25.41	
08179	Toluene		108-88-3	0.012	0.0056	25.41	
08179	Total Xylenes		1330-20-7	0.078	0.017	25.41	
GC Pe	troleum	SW-846	8015B	mg/kg	mg/kg		
Hvdro	carbons						
08270	TPH-DRO soil C10-C2	В	n.a.	27	13	1	
GC Pe	troleum	SW-846	8015B modified	[mg/kg	mg/kg		
Hvdro	carbons						
05256	#4 Fuel Oil		68476-31-3	N.D.	13	1	
05256	Coal Tar Oil		8001-58-9	N.D.	13	1	
05256	Diesel/#2 Fuel		68334-30-5	N.D.	13	1	
05256	#6 Fuel Oil		68553-00-4	N.D.	100	1	
05256	Gasoline		8006-61-9	N.D.	13	1	
05256	Kerosene		8008-20-6	N.D.	13	1	
05256	Mineral Spirits		8030-30-6	N.D.	13	1	
05256	Motor Oil		n.a.	N.D.	33	1	
TPH that C8 (quantitation is based of a hydrocarbon com n-octane) through C40	l on peak ponent mi) (n-tetra	area comparison of x calibration in a contane) normal hy	the sample pattern to a range that includes drocarbons.			
Wet C	hemistry	EPA 300	0.0	mg/kg	mg/kg		
07333	Chloride by IC (sol.	id)	16887-00-6	11,900	5,480	500	
Wet C	hemistry	SM 2540	G-1997	8	8		
00111	Moisture		n.a.	9.9	0.50	1	
	"Moisture" represent 103 - 105 degrees Co as-received basis.	ts the los elsius. T	ss in weight of the moisture result	e sample after oven drying reported above is on an	g at		

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	13077A16A	03/18/2013	20:40	Laura M Krieger	25.41
08179	BTEX by 8021	SW-846 8021B	1	13077A16A	03/18/2013	20:40	Laura M Krieger	25.41
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201307430405	03/15/2013	15:45	Mitchell R Washel	n.a.





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Sample Description: CVX-NMO-02 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 16:30 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:26

NMO02

LLI	Sample	#	SW 698418	38
LLI	Group	#	1375688	
Acco	ount	#	11713	

Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

	Laboratory Sample Analysis Record													
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor						
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	130740008A	03/19/2013	02:48	Christine E Dolman	1						
05256	TPH by GC-FID (Soils)	SW-846 8015B modified	1	130740009A	03/18/2013	19:50	Heather E Williams	1						
07004	Extraction - DRO (Soils)	SW-846 3550B	1	130740008A	03/16/2013	08:00	Joseph S Feister	1						
04833	Extraction / Fuel TPH (Soils)	SW-846 3550B	1	130740009A	03/16/2013	08:00	Joseph S Feister	1						
07333	Chloride by IC (solid)	EPA 300.0	1	13074074201A	03/16/2013	02:24	Christopher D Meeks	500						
01352	Deionized Water Extraction	EPA 300.0	1	13074074201A	03/15/2013	06:50	Nancy J Shoop	1						
00111	Moisture	SM 2540 G-1997	1	13074820001B	03/15/2013	18:51	Scott W Freisher	1						

Analysis Report

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:26 PM

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Group Number: 1375688

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	LOQ	Units	%REC	%REC	Limits	RPD	RPD Max
Batch number: 13077A16A	Sample nur	nber(s): 698	84188					
Benzene	N.D.	0.0050	mg/kg	90	92	80-120	2	30
Ethylbenzene	N.D.	0.0050	mg/kg	92	95	80-120	3	30
Toluene	N.D.	0.0050	mg/kg	93	94	80-120	2	30
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	80	82	67-119	2	30
Total Xylenes	N.D.	0.015	mg/kg	91	94	80-120	3	30
Batch number: 130740008A	Sample num	nber(s): 698	84188					
TPH-DRO soil C10-C28	N.D.	12.	mg/kg	92		76-120		
Batch number: 130740009A	Sample num	mber(s): 698	84188					
#4 Fuel Oil	N.D.	12.	mg/kg					
Coal Tar Oil	N.D.	12.	mg/kg					
Diesel/#2 Fuel	N.D.	12.	mg/kg	101		71-124		
#6 Fuel Oil	N.D.	90.	mg/kg					
Gasoline	N.D.	12.	mg/kg					
Kerosene	N.D.	12.	mg/kg					
Mineral Spirits	N.D.	12.	mg/kg					
Motor Oil	N.D.	30.	mg/kg					
Batch number: 13074074201A	Sample num	nber(s): 698	34188					
Chloride by IC (solid)	N.D.	10.0	mg/kg	104		90-110		
Batch number: 13074820001B	Sample num	mber(s): 698	34188					
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG <u>Conc</u>		DUP Conc		DUI RPI	2	Dup RPD
Batch number: 130740008A TPH-DRO soil C10-C28	Sample n 81	umber(s)	6984188 30-159	UNSPK:	P98418	6 BKG: P 6.4 J	984	186 5.4	J	17	(1)	20
Batch number: 130740009A #4 Fuel Oil Coal Tar Oil	Sample n	umber(s):	6984188	UNSPK:	NMOO1	BKG: NMO N.D. N.D.	01	N.D. N.D.		0	(1)	20
Diesel/#2 Fuel #6 Fuel Oil	92		37-129			N.D. N.D.		N.D. N.D.		0	(1) (1)	20 20

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Analysis Report

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:26 PM

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Group Number: 1375688

Sample Matrix Quality Control Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP	DUP RPD	Dup RPD Max
Gasoline						N.D.	N.D.	0 (1)	20
Kerosene						N.D.	N.D.	0 (1)	20
Mineral Spirits						N.D.	N.D.	0 (1)	20
Motor Oil						N.D.	N.D.	0 (1)	20
Batch number: 13074074201A	Sample	number(s): 6984188	UNSPK	P982	229 BKG:	P982229		
Chloride by IC (solid)	154*		90-110			22.4	19.4	14 (1)	20
Batch number: 13074820001B	Sample	number(s): 6984188	BKG:	P9821	62			
Moisture	-					14.1	15.8	11	13

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Batch nu	Name: Method 80	21 Soil Master	
Ducon no	Trifluorotoluene-F	Trifluorotoluene-P	
6984188	70	82	
Blank	86	96	
LCS	80	90	
LCSD	83	90	
Limits:	61-122	73-117	
Analycic	Name TPH-DRO	oil C10-C28	
Batch nu	mber: 1307400087		
Ducon no	Orthoternhenvl		
	oranotorphonyn		
6984188	81		
Blank	94		
DUP	79		
LCS	96		
MS	89		
Limits:	52-136		
Analysis	Name: TPH by GO	-FID (Soils)	
Batch nu	mber: 1307400094	0.0.1.1	
	Chlorobenzene	Orthoterphenyl	
6984188	84	91	
Blank	88	98	
DUP	83	78	
LCS	90	93	

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



Analysis Report

Group Number: 1375688

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:26 PM

Surrogate Quality Control

Limits: 46-131

51-127

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL N.D.	Reporting Limit none detected	BMQL MPN	Below Minimum Quantitation Level Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.

- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.
- U.S. EPA CLP Data Qualifiers:

Α

Organic Qualifiers

- TIC is a possible aldol-condensation product
- B Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- X,Y,Z Defined in case narrative

Inorganic Qualifiers

- B Value is <CRDL, but ≥IDL
- E Estimated due to interference
 M Duplicate injection precision not it
- M Duplicate injection precision not met N Spike sample not within control limits
- N Spike sample not within control limits
 S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Client: Conestoga-Rovers & Associates	1033 101	1111		-		Matrix					-	Analys	ses	Reques	ted	13. 10	For Lab Us	e Only
Project Name/#: NM "O" State - 073824	Site ID #:						-			-	-	Prese	rvat	ion Cor	les	10.100	SF#	ic only
Project Manager Rvan Kainer	PO #					2 8			0	0	0		- vai		T		SCR #	
Sampler Glenn Quinney	PWSID #				nen	Surfac			Ĕ				-		-			lan Cadaa
2hone # 432-686-0086	Quote #				Sedi			SIBL									Preservau	T = Thissulfat
State where sample(s) were collected: New N	exico	811.12		1	l″	9 00		ntalı			1						N = HNO	
	Colle	ction		posite	Ø	Potab Potab	Ľ	l # of Co	8015	rides 30	X 8021						$S = H_2SO_4$ O = Other	P = H ₃ PO ₄
Sample Identification	Date	Time	Grat	Com	Soil	Wate	Othe	Tota	Hall	Chlo	BTE					1.1	Rem	arks
CVX-NMO-02	3/13/13	1630		x	x			2	x	x	x						1. 1. 6	2.5
		100							1.12	1	1		1.4.	A		a	. Anda	
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urnaround Time Requested (TAT) (please c	neck): Stand	lard	Rus	h 🗹	Relin	nquished	by:	2	D	21	ate /	Tin	ne	Receive	d by:	-	Date	Time
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Date results are needed: 48 hrs	1		1		Retir	nquished	by:			Da	ate	Tin	ne	Receive	d by:		Date	Time
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-mail Address: rkainer@craworld.com					Relin	nquished	by:			Da	ate	Tin	ne	Receive	d by:		Date	Time
Phone: 432-686-0086		-							1			-				1. S.		-
Data Package Options (please check if require	ed)				Relin	nquished	by:			Da	ate	Tin	ne	Receive	d by:		Date	Time
ype I (Validation/non-CLP) MA MC	P L				Della							-		Desi			2	
ype III (Reduced non-CLP) CT RC					Rein	iquisned	DY:			Da	ate	1 In	ie	Receive	2) ·		Date	Time
ype IV (CLP SOW) I TX TR	RP-13				Polis	quiched	by C		raial	Corrie				P	at C	ph	3/15/13	Ogls
ype VI (Raw Data Only)	and a state of the		3.3		Rein	iquisned	by C	omme	rcial	Carrie	81.			5 m	0		1 11	

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared by:

Lancaster

Laboratories

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

March 19, 2013

Project: NM "O" State

Submittal Date: 03/15/2013 Group Number: 1375689 PO Number: 4056668 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description CVX-NMO-03 Composite Soil

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Lancaster Labs (LLI) # 6984189

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO ELECTRONIC COPY TO

Conestoga-Rovers & Associates

Conestoga-Rovers & Associates

Attn: Ryan Kainer

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Logn

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257

🛟 eurofins

Lancaster Laboratories



Account

LLI Sample # SW 6984189 LLI Group # 1375689

11713

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: CVX-NMO-03 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:00 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:27 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

NMO03

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor	
GC Vo	latiles	SW-846	8015B	mg/kg	mg/kg		
01638	TPH-GRO soil C6-C10		n.a.	17	1.1	24.06	
GC Vo	latiles	SW-846	8021B	mg/kg	mg/kg		
08179 08179 08179 08179	Benzene Ethylbenzene Toluene Total Xylenes		71-43-2 100-41-4 108-88-3 1330-20-7	0.0086 0.071 0.018 0.15	0.0054 0.0054 0.0054 0.016	24.06 24.06 24.06 24.06	
GC Pe	troleum	SW-846	8015B	mg/kg	mg/kg		
Hydro	carbons						
08270	TPH-DRO soil C10-C28	3	n.a.	99	13	1	
GC Pe	troleum	SW-846	8015B modified	mg/kg	mg/kg		
Hydro	carbons						
05256	#4 Fuel Oil		68476-31-3	N.D.	13	1	
05256	Coal Tar Oil		8001-58-9	N.D.	13	1	
05256	Diesel/#2 Fuel		68334-30-5	N.D.	13	1	
05256	#6 Fuel Oil		68553-00-4	61 J	100	1	
05256	Gasoline		8006-61-9	N.D.	13	1	
05256	Kerosene		8008-20-6	N.D.	13	1	
05256	Mineral Spirits		8030-30-6	N.D.	13	1	
05256	Motor Oil		n.a.	N.D.	34	1	
TPH that C8 (quantitation is based of a hydrocarbon com n-octane) through C40	on peak ponent mi (n-tetra	area comparison of ix calibration in a acontane) normal hy	the sample pattern to a range that includes rdrocarbons.			
Wet C	hemistry	EPA 300	0.0	mg/kg	mg/kg		
07333	Chloride by IC (soli	ld)	16887-00-6	9,260	5,540	500	
Wet C	hemistry	SM 2540	0 G-1997	8	8		
00111	Moisture		n.a.	10.8	0.50	1	
	"Moisture" represent 103 - 105 degrees Ce as-received basis.	ts the lo elsius. T	ss in weight of the he moisture result	e sample after oven dryin reported above is on an	g at		

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laborat	ory Sa	ample Analys:	is Record			
CAT	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution
No.					Date and Ti	me		Factor
01638	TPH-GRO soil C6-C10	SW-846 8015B	1	13077A16A	03/18/2013	21:18	Laura M Krieger	24 06
08179	BTEX by 8021	SW-846 8021B	1	13077A16A	03/18/2013	21.18	Laura M Krieger	24.00
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201307430405	03/15/2013	15:47	Mitchell R Washel	n.a.



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: CVX-NMO-03 Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:00 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:27

LLI Sample # SW 6984189 LLI Group # 1375689 Account # 11713

Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

NMO03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	me	Analyst	Dilution Factor
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	130740008A	03/19/2013	03:11	Christine E Dolman	1
05256	TPH by GC-FID (Soils)	SW-846 8015B modified	1	130740009A	03/18/2013	20:36	Heather E Williams	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	130740008A	03/16/2013	08:00	Joseph S Feister	1
04833	Extraction / Fuel TPH (Soils)	SW-846 3550B	1	130740009A	03/16/2013	08:00	Joseph S Feister	1
07333	Chloride by IC (solid)	EPA 300.0	1	13074074201A	03/16/2013	02:40	Christopher D Meeks	500
01352	Deionized Water Extraction	EPA 300.0	1	13074074201A	03/15/2013	06:50	Nancy J Shoop	1
00111	Moisture	SM 2540 G-1997	1	13074820001B	03/15/2013	18:51	Scott W Freisher	1

Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:27 PM

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Group Number: 1375689

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		
Analysis Name	Result	LOQ	Units	%REC	%REC	Limits	RPD	RPD Max
Batch number: 13077A16A	Sample num	mber(s): 69	84189					
Benzene	N.D.	0.0050	mg/kg	90	92	80-120	2	30
Ethylbenzene	N.D.	0.0050	mg/kg	92	95	80-120	3	30
Toluene	N.D.	0.0050	mg/kg	93	94	80-120	2	30
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	80	82	67-119	2	30
Total Xylenes	N.D.	0.015	mg/kg	91	94	80-120	3	30
Batch number: 130740008A	Sample nur	mber(s): 69	84189					
TPH-DRO soil C10-C28	N.D.	12.	mg/kg	92		76-120		
Batch number: 130740009A	Sample nur	mber(s): 69	84189					
#4 Fuel Oil	N.D.	12.	mg/kg					
Coal Tar Oil	N.D.	12.	mg/kg					
Diesel/#2 Fuel	N.D.	12.	mg/kg	101		71-124		
#6 Fuel Oil	N.D.	90.	mg/kg					
Gasoline	N.D.	12.	mg/kg					
Kerosene	N.D.	12.	mg/kg					
Mineral Spirits	N.D.	12.	mg/kg					
Motor Oil	N.D.	30.	mg/kg					
Batch number: 13074074201A	Sample nur	mber(s): 69	84189					
Chloride by IC (solid)	N.D.	10.0	mg/kg	104		90-110		
Batch number: 13074820001B	Sample nur	mber(s): 69	84189					
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DU RP	P D	Dup RPD Max
Batch number: 130740008A	Sample	number(s)	: 6984189	UNSPK:	P9841	86 BKG:	P98	4186				
TPH-DRO soil C10-C28	81		30-159			6.4	J	5.4	J	17	(1)	20
Batch number: 130740009A	Sample	number(s)	: 6984189	UNSPK:	NMO01	BKG: N	MOOL					
#4 Fuel Oil	-					N.D.		N.D.		0	(1)	20
Coal Tar Oil						N.D.		N.D.		0	(1)	20
Diesel/#2 Fuel	92		37-129			N.D.		N.D.		0	(1)	20
#6 Fuel Oil						N.D.		N.D.		0	(1)	20

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Analysis Report

Group Number: 1375689

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Page 2 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:27 PM

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Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Gasoline			and the second sec		100	N.D.	N.D.	0 (1)	20
Kerosene						N.D.	N.D.	0 (1)	20
Mineral Spirits						N.D.	N.D.	0 (1)	20
Motor Oil						N.D.	N.D.	0 (1)	20
Batch number: 13074074201A	Sample	number(s)	: 6984189	UNSPK	: P9822	229 BKG:	P982229		
Chloride by IC (solid)	154*		90-110			22.4	19.4	14 (1)	20
Batch number: 13074820001B	Sample	number(s)	: 6984189	BKG:	P98216	52			
Moisture						14.1	15.8	11	13

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Batch nu	Name: Method 802	1 Soil Master					
Daten na	Trifluorotoluene-F	Trifluorotoluene-P					
6984189	74	70*			 		
Blank	86	96					
LCS	80	90					
LCSD	83	90					
Limits:	61-122	73-117			 100	1	1.1.1.1.
Analysis	Name: TPH-DRO so	il C10-C28					
Batch nu	mber: 130740008A						
	Orthoterphenyl						
600/100	70				 	and the second	-
Blank	94						
DUP	79						
LCS	96						
MS	89						
Limits:	52-136		and the second	100 Carlos		17.72	111
Analysis	Name: TPH by GC-	FID (Soils)					
Batch nu	mber: 130740009A						
	Chlorobenzene	Orthoterphenyl					
6984189	86	74			 	277	100
Blank	88	98					
DUP	83	78					
LCS	90	93					
MS	122	83					

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



Analysis Report

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Page 3 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:27 PM Group Number: 1375689

Surrogate Quality Control

Limits: 46-131

51-127

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Environmental Services Analysis Request/Chain of Custody

Client: Conestoga-Rovers & Associates	11					Matrix			1.1		A	nalyses	Req	ueste	d		For Lab U	se Only
Project Name/#: NM "O" State - 073824	Site ID #:									199	F	reserva	tion	Code	s		SF #:	
Project Manager: Ryan Kainer	P.O. #:				=	8 9			0	0	0						SCR #:	
Sampler: Glenn Quinney	PWSID #:		in a line		mer	Grou											Preserva	tion Codes
Phone #: 432-686-0086	Quote #:	1.11		1	Sed		1	ners	10.0	5	-					1	H = HCI	T = Thiosulfa
State where sample(s) were collected: New Me	xico		1 4			e s		Intal		0						all is	N = HNO3	B = NaOH
	Colle	ction		posite	2	er NPD		I # of Co	8015	orides 30	X 8021						$S = H_2SO_4$ O = Other	$P = H_3 PO_4$
Sample Identification	Date	Time	Gral	Con	Soil	Wat	Othe	Tota	HAT	Chlo	BTE					3	Ren	narks
CVX-NMO-03	3/13/13	1700		x	x			2	x	x	x							
										1								
		1				1.20							1					
						100		and a								-		
														-				
		1		_		2.	1											
		1.5		-		1.20												
		1.15			_	1					_							
				-	_	1			200							-		-
				_					11			1	-					
Turnaround Time Requested (TAT) (please che (Rush TAT is subject to Lancaster Laboratories	ck): Stand approval and	lard surcharges.	Rush		keling	auished	by:	1	1	3/14	ite //3	Time	Rec	eived	by:		Date	Time
Date results are needed: 48 hrs			-	F	Relin	quished	by:/	-		Da	ite	Time	Rec	eived	by:		Date	Time
Rush results requested by (please check): E-M	lail 🔽	Phon	e 🗆					1		11			1.1		100	/	1.72	100
E-mail Address: <u>rkainer@craworld.com</u> Phone: 432-686-0086				F	Relin	quished	by:	1		Da	ite	Time	Rec	eived	by:	/	Date	Time
Data Package Options (please check if required Type I (Validation/non-CLP) MA MCF		1.1		F	Relin	quished	by:	A	1	Da	ite	Time	Rec	eived	by:		Date	Time
Type III (Reduced non-CLP) CT RCP				F	Relin	quished	by:	-	1	Da	ite	Time	Rec	eived	by:	11-12	Date	Time
Type IV (CLP SOW) TX TRR	P-13								40		4		1	Pat	- 61	4	3/15/13	0915
Type VI (Raw Data Only)		Sec.	1	F	Reline	quished	by Co	omme	rcial	Carrie	r:		T		0			
EDD Required? Yes I No I If y	es format				IDO		Fede	~ >	/	Other			Tem	peratu	ure upo	on receip	1 1.4	°C

£:

Page 7 of 8

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Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.

- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Α

Organic Qualifiers

- TIC is a possible aldol-condensation product
- B Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- Presumptive evidence of a compound (TICs only)
 P Concentration difference between primary and
- confirmation columns >25%
- U Compound was not detected
- X,Y,Z Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \geq IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Lancaster

Prepared for:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

March 19, 2013

Project: NM "O" State

Submittal Date: 03/15/2013 Group Number: 1375690 PO Number: 4056668 Release Number: LEA COUNTY, NM State of Sample Origin: NM

Client Sample Description CVX-NMO-SP Composite Soil

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Lancaster Labs (LLI) # 6984190

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO **ELECTRONIC** COPY TO

Conestoga-Rovers & Associates Conestoga-Rovers & Associates Attn: Ryan Kainer

Attn: Chris Knight

Respectfully Submitted,

Wendy a. Longn

Wendy A. Kozma Principal Specialist Group Leader

(717) 556-7257

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Lancaster Laboratories

Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: CVX-NMO-SP Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:15 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:55 Account # 11713

LLI Sample # SW 6984190

LLI Group # 1375690

Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

NMOSP

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Limit of Quantitation	Dilution Factor
GC Vo	latiles	SW-846	8015B	mg/kg	mg/kg	
01638	TPH-GRO soil C6-C10		n.a.	0.2 J	1.1	25.83
GC Vo	latiles	SW-846	8021B	mg/kg	mg/kg	
08179	Benzene		71-43-2	N.D.	0.0053	25.83
08179	Ethylbenzene		100-41-4	0.0021 J	0.0053	25.83
08179	Toluene		108-88-3	N.D.	0.0053	25.83
08179	Total Xylenes		1330-20-7	N.D.	0.016	25.83
GC Pet	troleum	SW-846	8015B	mg/kg	mg/kg	
Hydro	arbons					
08270	TPH-DRO soil C10-C28	1	n.a.	42	12	1
GC Pet	croleum	SW-846	8015B modified	mg/kg	mg/kg	
Hydro	arbons					
05256	#4 Fuel Oil		68476-31-3	N.D.	12	1
05256	Coal Tar Oil		8001-58-9	N.D.	12	1
05256	Diesel/#2 Fuel		68334-30-5	N.D.	12	1
05256	#6 Fuel Oil		68553-00-4	N.D.	93	1
05256	Gasoline		8006-61-9	N.D.	12	1
05256	Kerosene		8008-20-6	N.D.	12	1
05256	Mineral Spirits		8030-30-6	N.D.	12	1
05256	Motor Oil		n.a.	140	31	1
TPH that C8 (1	quantitation is based of a hydrocarbon com n-octane) through C40	on peak ponent mi (n-tetra	area comparison of x calibration in a acontane) normal hy	the sample pattern to range that includes drocarbons.		
Wet Cl	nemistry	EPA 300	0.0	mg/kg	mg/kg	
07333	Chloride by IC (soli	.d)	16887-00-6	809	205	20
Wet Cl	nemistry	SM 2540	G-1997	%	8	
00111	Moisture		n.a.	3.3	0.50	1
	"Moisture" represent 103 - 105 degrees Ce as-received basis.	s the los lsius. T	ss in weight of the he moisture result	e sample after oven drying reported above is on an	at	

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory	Sample	Analysis	Record
------------	--------	----------	--------

CAT Analysia		Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution	
No.						Date and Tin	ne		Factor	
01638	TPH-GRO so	oil C6-C10	SW-846 8015B	1	13077A16A	03/18/2013	21:56	Laura M Krieger	25.83	
08179	BTEX by 80	021	SW-846 8021B	1	13077A16A	03/18/2013	21:56	Laura M Krieger	25.83	
01150	GC - Bulk	Soil Prep	SW-846 5035A Modified	1	201307430405	03/15/2013	15:49	Mitchell R Washel	n.a.	



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 •717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Sample Description: CVX-NMO-SP Composite Soil NM "O" State - 073824

Project Name: NM "O" State

Collected: 03/13/2013 17:15 by GQ

Submitted: 03/15/2013 09:15 Reported: 03/19/2013 15:55

LLI Sample # SW 6984190 LLI Group # 1375690 Account # 11713

Conestoga-Rovers & Associates 13091 Pond Springs Road Austin TX 78729

NMOSP

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	me	Analyst	Dilution Factor
08270	TPH-DRO soil C10-C28	SW-846 8015B	1	130740008A	03/19/2013	03:34	Christine E Dolman	1
05256	TPH by GC-FID (Soils)	SW-846 8015B modified	1	130740009A	03/18/2013	21:21	Heather E Williams	1
07004	Extraction - DRO (Soils)	SW-846 3550B	1	130740008A	03/16/2013	08:00	Joseph S Feister	1
04833	Extraction / Fuel TPH (Soils)	SW-846 3550B	1	130740009A	03/16/2013	08:00	Joseph S Feister	1
07333	Chloride by IC (solid)	EPA 300.0	1	13074074201A	03/19/2013	11:02	Christopher D Meeks	20
01352	Deionized Water Extraction	EPA 300.0	1	13074074201A	03/15/2013	06:50	Nancy J Shoop	1
00111	Moisture	SM 2540 G-1997	1	13074820001B	03/15/2013	18:51	Scott W Freisher	1

Analysis Report

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Page 1 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:55 PM

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Group Number: 1375690

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank LOQ	Report <u>Units</u>	LCS %REC	LCSD <u>%REC</u>	LCS/LCSD Limits	RPD	RPD Max
Batch number: 13077A16A	Sample nu	mber(s): 69	84190					
Benzene	N.D.	0.0050	mg/kg	90	92	80-120	2	30
Ethylbenzene	N.D.	0.0050	mg/kg	92	95	80-120	3	30
Toluene	N.D.	0.0050	mg/kg	93	94	80-120	2	30
TPH-GRO soil C6-C10	N.D.	1.0	mg/kg	80	82	67-119	2	30
Total Xylenes	N.D.	0.015	mg/kg	91	94	80-120	3	30
Batch number: 130740008A	Sample nu	mber(s): 698	84190					
TPH-DRO soil C10-C28	N.D.	12.	mg/kg	92		76-120		
Batch number: 130740009A	Sample nu	mber(s): 698	84190					
#4 Fuel Oil	N.D.	12.	mg/kg					
Coal Tar Oil	N.D.	12.	mg/kg					
Diesel/#2 Fuel	N.D.	12.	mg/kg	101		71-124		
#6 Fuel Oil	N.D.	90.	mg/kg					
Gasoline	N.D.	12.	mg/kg					
Kerosene	N.D.	12.	mg/kg					
Mineral Spirits	N.D.	12.	mg/kg					
Motor Oil	N.D.	30.	mg/kg					
Batch number: 13074074201A	Sample nu	mber(s): 698	84190					
Chloride by IC (solid)	N.D.	10.0	mg/kg	104		90-110		
Batch number: 13074820001B	Sample nu	mber(s): 698	84190					
Moisture				100		99-101		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD Limits	RPD	RPD MAX	BKG <u>Conc</u>		DUP Conc		DU RP	₽ D	Dup RPD <u>Max</u>
Batch number: 130740008A TPH-DRO soil C10-C28	Sample n 81	umber(s):	6984190 30-159	UNSPK:	P98418	6 BKG: PS 6.4 J	84	186 5.4	J	17	(1)	20
Batch number: 130740009A #4 Fuel Oil Coal Tar Oil	Sample n	umber(s):	6984190	UNSPK:	NMO01	BKG: NMOO N.D. N.D.)1	N.D. N.D.		0	(1) (1)	20 20
Diesel/#2 Fuel #6 Fuel Oil	92		37-129			N.D. N.D.		N.D. N.D.		0	(1) (1)	20 20

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Analysis Report

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Page 2 of 3

Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:55 PM

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Group Number: 1375690

Sample Matrix Quality Control Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

		-							
	MS	MSD	MS/MSD		RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Gasoline			10000		1.1	N.D.	N.D.	0 (1)	20
Kerosene						N.D.	N.D.	0 (1)	20
Mineral Spirits						N.D.	N.D.	0 (1)	20
Motor Oil						N.D.	N.D.	0 (1)	20
Batch number: 13074074201A	Sample	number(s)	: 6984190	UNSPK:	P9822	29 BKG:	P982229		
Chloride by IC (solid)	154*		90-110			22.4	19.4	14 (1)	20
Batch number: 13074820001B	Sample	number(s)	: 6984190	BKG:	P98216	2			
Moisture	-					14.1	15.8	11	13

Surrogate Quality Control Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis	Name: Method 80	21 Soil Master		
Batch nu	mber: 13077A16A Trifluorotoluene-F	Trifluorotoluene-P		
6984190	78	90		
Blank	86	96		
LCS	80	90		
LCSD	83	90		
Limits:	61-122	73-117		
Analysis	Name: TPH-DRO s	oil C10-C28		
Batch nu	mber: 130740008A	L		
	Orthoterphenyl			
6984190	92		and the second sec	
Blank	94			
DUP	79			
LCS	96			
MS	89			
Limits:	52-136		and the second	
Analysis Batch nu	Name: TPH by GC mber: 130740009A	-FID (Soils)		
	Chlorobenzene	Orthoterphenyl		
6984190	86	97		and the second sec
Blank	88	98		
DUP	83	78		
LCS	90	93		
MS	122	83		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.



Analysis Report

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Quality Control Summary

Client Name: Conestoga-Rovers & Associates Reported: 03/19/13 at 03:55 PM Group Number: 1375690

Surrogate Quality Control

Limits: 46-131

51-127

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

Environmental Services Analysis Request/Chain of Custody

Client: Matrix Analyses Requested For Lab Use On Project Manager: Ryan Kalner P.O. #. Project Manager: State 10 #: Project Manager: Pr				-	-	-	-	-	-	_	-	-	_		-		-			
Project Mamed#: NM **O* State - 073824 Site ID #: Project Manager:	Client: Conestoga-Rovers & Associates	14	- Sent	1.dx	-	N	Aatrix	1		-	20	A	nalyses	Req	ueste	d	For Lab U	For Lab Use Only		
Project Manager: Ryan Kainer P.O. #: The super client Quinney PVWSID #:	Project Name/#: NM "O" State - 073824	Site ID #:	-	-		זןכ		1. 14				F	reserva	ation Codes			SF #:	SF #:		
Sampler: Glann Quinney PWSID #: get of the second se	Project Manager: Ryan Kainer	P.O. #:		100	1		ace		1	0	0	0				10	SCR #:	-		
Phone #: 432-686-0086 Quote #: Image: State where sample(s) were collected: New Mexico Image: State where sample(sate where collected:	Sampler: Glenn Quinney	PWSID #:		11			Surf		50		-						Preserva	tion Codes		
State where sample(s) were collected: New Mexico Image: Collection Image: Collection <thimage: collection<="" th=""> Image: Collection</thimage:>	Phone #: 432-686-0086	Quote #:		1.12					Iner								H = HCI	T = Thiosulfa		
Collection g	State where sample(s) were collected: New M	exico		1.1.1	-	q	DES		onta		8						N = HNO3	B = NaOH		
Sample Identification Date Time E S		Collec	ction		posite	Dote	er NPC	er:	ll # of C	8015	rides 30	X 8021	1		1		S = H ₂ SO ₄ O = Other	P = H ₃ PO ₄		
CVX-NMO-SP 3/13/13 1715 x x 2 x	Sample Identification	Date	Time	Gra	Con		Wat	Oth	Tota	TPH	Chic	BTE		1	1		Ren	narks		
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Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meg	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- ppm parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Δ

Organic Qualifiers

- TIC is a possible aldol-condensation product
- B Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- Presumptive evidence of a compound (TICs only)
 P Concentration difference between primary and
- confirmation columns >25%
- U Compound was not detected
- X,Y,Z Defined in case narrative

Inorganic Qualifiers

- B Value is <CRDL, but ≥IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

3768.07 Page 8 of 8



5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Midland. Texas 79703 Carroliton, Texas 75006

E-Mail. lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

DBE NELAP DoD LELAP WBE HUB NCTRCA Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ryan Kainer **CRA-Midland** 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031406

972-242 -7750

Project Location: Lea Co., NM **Project Name:** NM "O" State #40 Project Number: 073824

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

Description	Matrix	Taken	Taken	Received
CVX-MNO-01	soil	2013-03-13	16:00	2013-03-14
	Description CVX-MNO-01	Description Matrix CVX-MNO-01 soil	DescriptionMatrixTakenCVX-MNO-01soil2013-03-13	DescriptionMatrixTakenTakenCVX-MNO-01soil2013-03-1316:00

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.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael Ala

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Report Contents

Case Narrative	3
Analytical Report	4
Sample 323424 (CVX-MNO-01)	 4
Method Blanks	5
QC Batch 99814 - Method Blank (1)	 5
Laboratory Control Spikes	6
QC Batch 99814 - LCS (1)	 6
QC Batch 99814 - $MS(1)$	 6
Calibration Standards	7
QC Batch 99814 - CCV (1)	 7
QC Batch 99814 - $CCV(2)$	 7
Appendix	8
Report Definitions	 8
Laboratory Certifications	 8
Standard Flags	 8
Attachments	 8

Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031406. Samples for work order 13031406 were received intact at a temperature of 2.3 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

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 13031406 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: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40

Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323424 - CVX-MNO-01

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 99814 84564		Analytical I Date Analy Sample Pre	Method: zed: paration:	E 418.1 2013-03-19 2013-03-19		Prep Method: Analyzed By: Prepared By:	N/A DS DS
				F	RL			
Parameter		Flag	Cert	Resu	ılt	Units	Dilution	RL
TRPHC		Qs		15	.6	mg/Kg	1	10.0

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

TRPHC				<5.72	mg/Kg	10
Parameter		Flag	Cert	MDL Result	Units	RL
QC Batch: Prep Batch:	99814 84564		Date Analyzed: QC Preparation:	2013-03-19 2013-03-19	Analyzed By: Prepared By:	DS DS
Method Bla	nk (1)	QC Batch: 99814				

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 6 of 9 Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99	9814		Date	Analyzed:	201	3-03-19			Ana	lyzed B	y: DS
Prep Batch: 84	1564		QC I	Preparation:	201	3-03-19			Prej	pared B	y: DS
				LCS			Spike	M	atrix		Rec.
Param		F	C I	Result I	Jnits	Dil.	Amount	Re	esult F	lec.	Limit
TRPHC	×			288 m	g/Kg	1	250	<	5.72 1	.15	80 - 120
Percent recovery	v is based on the spi	ke resu	lt. RPD	is based on	the sp	oike and sp	ike duplica	te rest	ult.		
			LCSD			Spike	Matrix		Rec.		RPD
Param	1	FC	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC			281	mg/Kg	1	250	$<\!5.72$	112	80 - 120	2	20
Percent recovery	is based on the spi	ke resu	lt. RPD	is based on	the sp	ike and sp	ike duplica	te resi	ult.		
Matrix Spike	(MS-1) Spiked S	Sample	: 323447								
QC Batch: 99	0814		Date	Analyzed:	2013	3-03-19			Ana	lyzed B	y: DS
Prep Batch: 84	1564		QCI	Preparation:	201	3-03-19			Pre	pared B	y: DS

				MS			Spike	Matrix		Rec.
Param		\mathbf{F}	C	Result	Units	Dil.	Amount	Result	Rec.	Limit
TRPHC	Qs	Qs		314	mg/Kg	1	250	166	59	80 - 120
Percent recovery is based on the	he spik	e resul	t. RP	D is based	on the spik	e and sp	oike duplicate	e result.		

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2	20

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

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch: 9	99814		Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch:	99814			Date A	Analyzed:	2013-03-19		Analy	vzed By: DS
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC	1.1.1.1			mg/Kg	100	112	112	80 - 120	2013-03-19

Report Date: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

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 then 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: March 19, 2013 073824

Work Order: 13031406 NM "O" State #40

Page Number: 9 of 9 Lea Co., NM

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

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200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Texas 79922 El Paso, Midland, Texas 79703 Carroliton. Texas 75006 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

FAX 915-585-4944 432-689-6301 FAX 432-689-6313 972-242 -7750

Certifications

HUB NCTRCA DBE NELAP DoD LELAP WBE Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Ryan Kainer CRA-Midland 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031420

Project Location: Lea Co., NM NM "O" State #40 **Project Name:** Project Number: 073824

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

1			Date	THIC	Date
Sample	Description	Matrix	Taken	Taken	Received
323446	CVX-MNO-02	soil	2013-03-13	16:30	2013-03-14

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.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael A

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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QC Batch 99814 - MS (1)	 6
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Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031420. Samples for work order 13031420 were received intact at a temperature of 2.3 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

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 13031420 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.

Work Order: 13031420 NM "O" State #40 Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323446 - CVX-MNO-02

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 99814 84564		Analytical Date Analy Sample Pre	Method: zed: paration:	E 418.1 2013-03-19 2013-03-19		Prep Method: Analyzed By: Prepared By:	N/A DS DS
				F	RL			
Parameter		Flag	Cert	Resu	ılt	Units	Dilution	RL
TRPHC		Qs	a	68	.2	mg/Kg	1	10.0

. .

Work Order: 13031420 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

Prep Batch: 84564 QC Preparation: 2013-03-19 Prepared By: <u>MDL</u> Parameter Flag Cert Result Units	10
Prep Batch: 84564 QC Preparation: 2013-03-19 Prepared By:	RL
QC Batch: 99814 Date Analyzed: 2013-03-19 Analyzed By:	DS DS

Work Order: 13031420 NM "O" State #40

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814			Dat	e Analyzed	: 201	3-03-19			1	Analyzed I	By: DS
Prep Batch: 84564			QC	Preparatio	n: 2013	3-03-19			1	Prepared I	By: DS
				LCS			Spike	М	atrix		Rec.
Param		F	С	Result	Units	Dil.	Amount	R	esult	Rec.	Limit
TRPHC	1-1-1-1			288	mg/Kg	1	250	<	5.72	115	80 - 120
Percent recovery is based o	n the spike	resu	lt. RPI) is based o	n the sp	ike and sp	ike duplica	ate res	ult.		
			LCSD)		Spike	Matrix		Rec		RPD
Param	\mathbf{F}	С	Result	t Units	Dil.	Amount	Result	Rec.	Lim	it RPL) Limit
TRPHC			281	mg/Kg	1	250	$<\!5.72$	112	80 - 1	20 2	20
Matrix Spike (MS-1)	Spiked Sa	mple:	323447	7	n the st	nke and sp	ike dupilea	ue res	uit.		
QC Batch: 99814			Dat	e Analyzed	: 201	3-03-19			1	Analyzed 1	By: DS
Prep Batch: 84564			QC	Preparatio	n: 2013	3-03-19			I	Prepared I	By: DS
				MS			Spike	М	atriv		Rec
Param		\mathbf{F}	C	Result	Units	Dil.	Amount	R	esult	Rec.	Limit
TRPHC	Qs	Qs		314	mg/Kg	1	250		166	59	80 - 120

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

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	Qs	Qs		320	$\mathrm{mg/Kg}$	1	250	166	62	80 - 120	2	20

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

Work Order: 13031420 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch:	99814			Date A	Analyzed:	2013-03-19		Analy	zed By: DS
					CCVs	CCVs Found	CCVs Percent	Percent	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC		0		mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch: 998	314		Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	112	112	80 - 120	2013-03-19

Work Order: 13031420 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100 - 86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

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 then 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

Work Order: 13031420 NM "O" State #40 Page Number: 9 of 9 Lea Co., NM

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6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, El Paso, Texas 79424 Texas 79922 Midland, Texas 79703 Carroliton, Texas 75006 E-Mail lab@traceanalysis.com WEB: www.traceanalysis.com

915-585-3443 FAX 915 - 585 - 4944 432-689-6301 FAX 432+689+6313 972-242 -7750

Certifications

HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025 WBE

Analytical and Quality Control Report

Ryan Kainer **CRA-Midland** 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031421

Project Location: Lea Co., NM Project Name: NM "O" State #40 **Project Number:** 073824

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
323447	CVX-MNO-03	soil	2013-03-13	17:00	2013-03-14

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.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael (

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031421. Samples for work order 13031421 were received intact at a temperature of 2.3 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

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 13031421 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.

Work Order: 13031421 NM "O" State #40

Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323447 - CVX-MNO-03 . .

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock TPH 418.1 99814 84564		Analytical Me Date Analyzed Sample Prepar	thod: l: ration:	E 418.1 2013-03-19 2013-03-19		Prep Method: Analyzed By: Prepared By:	N/A DS DS
				F	RL			
Parameter		Flag	Cert	Resi	ılt	Units	Dilution	RL
TRPHC		Qs		10	36	mg/Kg	1	10.0

Work Order: 13031421 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

Method Bl	ank (1)	QC Batch: 99814				
QC Batch:	99814		Date Analyzed:	2013-03-19	Analyzed By:	DS
Prep Batch:	84564		QC Preparation:	2013-03-19	Prepared By:	DS
				MDL		
Parameter		Flag	Cert	Result	Units	\mathbf{RL}
TRPHC		-	1 1 - 2 1	< 5.72	mg/Kg	10

Prep Batch: 84564

Work Order: 13031421 NM "O" State #40

Page Number: 6 of 9 Lea Co., NM

Prepared By: DS

Limit 20

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814			Date	e Analyzed	l: 201	3-03-19			Ana	alyzed B	y: DS
Prep Batch: 84564			QC	Preparatio	on: 2013	3-03-19			Pre	pared B	y: DS
				LCS			Spike	М	atrix		Rec.
Param		F	C	Result	Units	Dil.	Amount	R	esult I	lec.	Limit
TRPHC				288	mg/Kg	1	250	<	5.72	115	80 - 120
Percent recovery is based	on the spi	ike resu	lt. RPD	is based of	on the sp	oike and sp	ike duplica	ate res	ult.		
			LCSD		-	Spike	Matrix		Rec.	-	RPD
Param		F C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC		1. 1. 1.	281	mg/Kg	1	250	$<\!5.72$	112	80 - 120	2	20
Percent recovery is based	on the spi	ike resu	llt. RPD	is based of	on the sp	ike and sp	ike duplica	ate res	ult.		
Matrix Spike (MS-1)	Spiked S	Sample	: 323447								
QC Batch: 99814			Date	Analyzed	l: 201	3-03-19			Ana	alyzed B	y: DS

Param		F	С	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Percent recovery is based on a	Q8 the spik	e result	. RP	D is based	on the spil	te and sp	pike duplicate	e result.		80 - 120
			MS	D		Spike	Matrix	Rec		RPD

QC Preparation: 2013-03-19

Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2

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

Work Order: 13031421 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch:	99814			Date A	Analyzed:	2013-03-19		Analy	zed By: DS
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC				mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch: 998	814		Date A	Analyzed:	2013-03-19		Analy	zed By: DS
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC			mg/Kg	100	112	112	80 - 120	2013-03-19

Work Order: 13031421 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	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 then 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

Work Order: 13031421 NM "O" State #40

Page Number: 9 of 9 Lea Co., NM

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

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Texas 79424 Texas 79922 Lubbock. El Paso, Midland, Texas 79703 Carroliton, Texas 75006 E-Mail lab@traceanalysis.com WEB: www.traceanalysis.com

915-585-3443 432-689-6301 972-242 -7750

FAX 806+794+1298 FAX 915-585-4944 FAX 432+689+6313

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Oklahoma Kansas **ISO 17025**

Analytical and Quality Control Report

Ryan Kainer **CRA-Midland** 2135 South Loop 250 West Midland, TX, 79703

Report Date: March 19, 2013

Work Order: 13031422

Project Location: Lea Co., NM NM "O" State #40 Project Name: Project Number: 073824

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
323448	CVX-MNO-SP	soil	2013-03-13	17:15	2013-03-14

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.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael al

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Report Contents

	3
t CVX-MNO-SP)	4 4
- Method Blank (1)	5 5
ol Spikes - LCS (1) - MS (1)	6 6
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ns	8 8 8 8
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Case Narrative

Samples for project NM "O" State #40 were received by TraceAnalysis, Inc. on 2013-03-14 and assigned to work order 13031422. Samples for work order 13031422 were received intact at a temperature of 2.3 C.

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

		Prep	Prep	QC	Analysis
Test	Method	Batch	Date	Batch	Date
TPH 418.1	E 418.1	84564	2013-03-19 at 08:00	99814	2013-03-19 at 08:15

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 13031422 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.

Work Order: 13031422 NM "O" State #40 Page Number: 4 of 9 Lea Co., NM

Analytical Report

Sample: 323448 - CVX-MNO-SP

TRPHC		Qs		12	22	mg/Kg	1	10.0
Parameter		Flag	Cert	Rest	ılt	Units	Dilution	RL
Prep Batch:	84564		Sample Pre	eparation:	2013-03-19		Prepared By:	DS
QC Batch:	99814		Date Analy	zed:	2013-03-19		Analyzed By:	DS
Analysis:	TPH 418.1		Analytical 1	Method:	E 418.1		Prep Method:	N/A
Laboratory:	Lubbock							

Work Order: 13031422 NM "O" State #40 Page Number: 5 of 9 Lea Co., NM

Method Blanks

Method Bl	ank (1)	QC Batch: 99814					
QC Batch:	99814		Date Analyzed:	2013-03-19		Analyzed By:	DS
Prep Batch:	84564		QC Preparation:	2013-03-19		Prepared By:	DS
				M	ÍDL		
Parameter		Flag	Cert	Re	sult	Units	RL
TRPHC	der der	-	1 2 4 3 6	</td <td>5.72</td> <td>mg/Kg</td> <td>10</td>	5.72	mg/Kg	10

Work Order: 13031422 NM "O" State #40 Page Number: 6 of 9 Lea Co., NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 99814			Dat	e Analyzed	d: 201	3-03-19			Analyzed	By: DS
Prep Batch: 84564			QC	Preparatio	on: 201	3-03-19			Prepared	By: DS
				LCS			Spike	Matrix		Rec.
Param		F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
TRPHC				288	mg/Kg	1	250	< 5.72	115	80 - 120
Percent recovery is based on the	e spike	resu	lt. RPI) is based	on the sp	oike and sp	ike duplica	ate result.		
			LCSE)		Spike	Matrix	R	lec.	RPD
Param	\mathbf{F}	\mathbf{C}	Resul	t Units	Dil.	Amount	Result	Rec. Li	imit RP	D Limit
TRPHC			281	mg/Kg	; 1	250	$<\!5.72$	112 80	- 120 2	20
Matrix Spike (MS-1) Spik	ed Sa	mple:	323447	7						
QC Batch: 99814			Dat	e Analyzed	d: 201	3-03-19			Analyzed	By: DS
Prep Batch: 84564			QC	Preparatio	on: 201	3-03-19			Prepared	By: DS
				MS			Spike	Matrix		Rec.
Param		F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
TRPHC	Qs	Qs	-	314	mg/Kg	ş 1	250	166	59	80 - 120
Percent recovery is based on the	e spike	resu	lt. RPI) is based of	on the sp	oike and sp	ike duplica	ate result.		

				MSD			Spike	Matrix		Rec.		RPD
Param		\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
TRPHC	Qs	Qs		320	mg/Kg	1	250	166	62	80 - 120	2	20

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

Work Order: 13031422 NM "O" State #40 Page Number: 7 of 9 Lea Co., NM

Calibration Standards

Standard (CCV-1)

QC Batch:	99814			Date A	Analyzed:	2013-03-19		Analy	zed By: DS
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC				mg/Kg	100	110	110	80 - 120	2013-03-19

Standard (CCV-2)

QC Batch: 99	814		Date A	Analyzed:	2013-03-19		Analy	yzed By: DS
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
TRPHC	C BY C Y		mg/Kg	100	112	112	80 - 120	2013-03-19

Work Order: 13031422 NM "O" State #40 Page Number: 8 of 9 Lea Co., NM

Appendix

Report Definitions

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

Laboratory Certifications

	Certifying	Certification	Laboratory
\mathbf{C}	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704219-12-8	Lubbock

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 then 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

Work Order: 13031422 NM "O" State #40 Page Number: 9 of 9 Lea Co., NM

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Please note, each attachment may consist of more than one page.

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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: AZ00989): 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.

Ams Boah

Kelsey Brooks Project Manager

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XENCO Laboratories

Sample Cross Reference 462766



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:073824Work Order Number(s):462766

73824 52766 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 Id: 073824		Project Name: CEMC NM Ostate #40												
Contact: Tom Larson							n Lab:	: Thu May-09-13 09:10 am						
Project Location: New Mexico								Report	t Date:	16-MAY-13				
					-		2	Project Ma	nager:	Kelsey Brook	s		_	
	Lab Id:	462766-	001	462766-002			003	462766-004		462766-005		462766-006		
Andreis Descented	Field Id:	SB-1 5	5'	SB-1 10	D'	SB-1 1	5'	SB-1 20'		SB-1 40'		SB-1 50'		
Analysis Kequestea	Depth:													
	Matrix:	SOIL		DIL SOIL			SOIL			SOIL		SOIL		
and the second second	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		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		
the second s	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		
100 Listigen sins the most	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	

Certificate of Analysis Summary 462766

Conestoga Rovers & Associates, Midland, TX

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Kelsey Brooks Project Manager

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

Certificate of Analysis Summary 462766 Conestoga Rovers & Associates, Midland, TX Project Name: CEMC NM Ostate #40



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

roject Location: New Mexico								Report Project Mar	Date:	16-MAY-13 Kelsey Brook	5		
	Lab Id:	462766-0	007	462766-008 462766-009				462766-0	10	462766-0	011	462766-0	012
Analysis Requested	Field Id:	SB-1 7	SB-1 70'		0'	SB-2 5'		SB-2 10'		SB-2 15'		SB-2 20'	
	Depth:												
	Matrix:	SOIL	SOIL		OIL 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	May-09-13 15:00		May-09-13 15:00		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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Kelsey Brooks Project Manager

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Laboratories	Certificate of Analysis Summary 462766 Conestoga Rovers & Associates, Midland, TX Project Name: CEMC NM Ostate #40												
Contact: Tom Larson	a Larson Date Received in							1 Lab:	b: Thu May-09-13 09:10 am				
Project Location: New Mexico								Report Project Ma	Date: nager:	16-MAY-13 Kelsey Brook	s		
Analysis Requested	Lab Id: Field Id: Depth: Matrix:	462766-013 SB-2 40'		462766-0 SB-2 5	014 0'	462766- SB-2 7	015 '0'	462766-016 SB-2 90'		462766-017 SB-3 5'		462766-018 SB-3 10'	
	Sampled:	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	
Inorganic Anions by EPA 300/300.1	Extracted: Analyzed: Units/RL:	May-10-13 May-11-13 mg/kg	10:00 03:57 RL	May-10-13 May-11-13 mg/kg	May-10-13 10:00 May-11-13 04:19 mg/kg RL		10:00 04:41 RL			May-10-13 May-11-13 mg/kg	10:00 06:07 RL	May-10-13 May-11-13 mg/kg	10:00 02:52 RL
Chloride		28.9	4.27	102	4.25	108	4.18			713	20.4	612	10.6
Percent Moisture	Extracted: Analyzed: Units/RL:	May-09-13 %	May-09-13 15:20		15:20 May-09-13 15:20 RL % RL		May-09-13 15:20 % RL		16:00 RL	May-09-13 16:00		May-09-13 16:00 % RL	
Percent Moisture		6.27	1.00	5 82	1.00	4 37	1.00	5.04	1.00	2.17	1.00	5.71	1.00

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											CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE		
Project Id: 073824		Proje	ct Nam	e: CEMC	NM O	state #40							
Contact: Tom Larson				n Lab:	Thu May-09-13 09:10 am								
roject Location: New Mexico								Report	Date:	16-MAY-13			
Tojeet Edeation. New Mexico								Project Ma	nager:	Kelsey Brook	s		
	Lab Id:	462766-	019	462766-0	20	462766-0	021	462766-0	022	462766-023		462766-0	024
to to the provide	Field Id:	SB-3 1	SB-3 15'		SB-3 20'		SB-3 40'		SB-3 50'		D'	SB-3 90'	
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	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
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			1 B
A CONTRACT OF	Analyzed:	May-11-13	May-11-13 06:51		07:12	May-11-13 09:23		May-11-13 10:06		May-11-13 10:28			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		914	21.3	912	21.0	423	10.6	105	4.22	29.8	4.19		
Percent Moisture	Extracted:							123.00					
	Analyzed:	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	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.01	1.00	4.91	1.00	5.68	1.00	5.22	1.00	4.48	1.00	5.38	1.00

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Certificate of Analysis Summary 462766 Conestoga Rovers & Associates, Midland, TX Project Nume: CEMC NM Octate #40






Conestoga Rovers & Associates, Midland, TX

Sample Id: Lab Sample Id:	SB-1 5' 462766-001	Matrix: S Date Collected: (oil)5.07.13 14.1	30	D	ate Received: 05.	09.13 09.10		
Analytical Method Tech: Analyst: Seq Number:	: Inorganic Ani AMB AMB 913663	ons by EPA 300/3	00.1 Date Pre	p: 05.10.	.13 10.00		Prep Method: E3 % Moisture: 6.5 Basis: Dry	00P 1 / Weight	
Parameter Chloride	2	Cas Number 16887-00-6	Result 2090	RL 42.8		Units mg/kg	Analysis Date 05.10.13 22.10	Flag	Dil 20

Analytical Method:	Percent Moi	isture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913378								
Parameter		Cas Number	Result	RL	U	nits	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	6.51	1.00	9	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id: SB-1 10'			Matri	x: Soil		1	Date Received: 05.09.13 09.10				
Lab Sample Id:	462766-002		Date Collecte	d: 05.07.13 1	4.35						
Analytical Metho	d: Inorganic Ar	nions by EPA 300/30	0.1				Prep Method: E3	00P			
Tech:	AMB						% Moisture: 7.8				
Analyst:	AMB		Date	Prep: 05.	10.13 10.00		Basis: Dr	y Weight			
Seq Number:	913663										
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 Metho	d. Percent Mois	ture									

Analytical Method.	rercent Mon	sture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	t Weight	
Seq Number:	913378							
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

Sample Id: SB-1 15' Lab Sample Id: 462766-003			Matri Date Collecte	x: Soil d: 05.07.13 14.40	Ι	Date Received: 05.09.13 09.10				
Analytical Method:	Inorganic Ani	ons by EPA 300/.	300.1			Prep Method: E300P				
Tech:	AMB					% Moisture: 4.2	7			
Analyst:	AMB		Date	Prep: 05.10.13	3 10.00	Basis: Dr	y Weight			
Seq Number:	913663									
Parameter	4 39m	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 Moist	ure								
Tech:	SHSM					% Moisture:				
Analyst:	WRU					Basis: We	t Weight			
Seq Number:	913378									
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

Sample Id: SI	B-1 20'		Matri	x: Soil		I	Date Received: 05.	09.13 09.1	0
Lab Sample Id: 46	52766-004	Ι	Date Collected	d: 05.07.1	3 14.45				
Analytical Method:	Inorganic A	Anions by EPA 300/30	0.1				Prep Method: E30	00P	
Tech:	AMB				* >0		% Moisture: 6		
Analyst:	AMB		Date	Prep: (5.10.13 10.00		Basis: Dry	Weight	
Seq Number:	913663								
Parameter		Cas Number	Result	RL	1.00	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	1800	42.6		mg/kg	05.10.13 23.37		20
Analytical Method:	Percent Mo	oisture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t 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

Sample Id: SB-1 40' Lab Sample Id: 462766-005			Matrix Date Collected	:: Soil l: 05.07	.13 14.50	D	ate Received: 05.	09.13 09.1	0
Analytical Method: Tech: Analyst: Seq Number:	Inorganic Ani AMB AMB 913663	ons by EPA 300/3	00.1 Date F	Prep:	05.10.13 10.00		Prep Method: E30 % Moisture: 5.5 Basis: Dry	00P 2 7 Weight	
Parameter Chloride		Cas Number 16887-00-6	Result 1050	RL 21.3	2	Units mg/kg	Analysis Date 05.10.13 23.59	Flag	Dil 10

Analytical Method:	Percent Mois	sture						
Tech:	SHSM					% Moisture:		
Analyst:	WRU					Basis: We	t Weight	
Seq Number:	913378							
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

Sample Id: Lab Sample Id:	SB-1 50' 462766-006	Da	Matrix: Soil Date Collected: 05.07.13 14.55			Date Received: 05.09.13 09.10			
Analytical Metho Tech: Analyst: Seq Number:	d: Inorganic Ar AMB AMB 913663	iions by EPA 300/300.	1 Date	Prep:	05.10.13 10.00		Prep Method: E30 % Moisture: 4.0 Basis: Dry	00P 6 7 Weight	
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: We	et Weight	
Seq Number:	913378							
Parameter		Cas Number	Result	RL	Unit	s Analysis Date	Flag	Dil
Percent Moisture		TMOIST	4.06	1.00	%	05.09.13 15.00		1





Conestoga Rovers & Associates, Midland, TX

Sample Id: SB-1 70'			Matri	x: Soil		D	Date Received: 05.	09.13 09.	10	
Lab Sample Id: 462	2766-007		Date Collected	d: 05.07.	13 15.00					
Analytical Method:	Inorganic A	nions by EPA 300/30	00.1				Prep Method: E3	00P		
Tech:	AMB						% Moisture: 4.1	9		
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dry	y Weight		
Seq Number:	913663									
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 Moi	sture								
Tech:	SHSM						% Moisture:			
Analyst:	WRU						Basis: We	t Weight		
Seq Number:	913378									

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

Sample Id:SBLab Sample Id:462	-1 90' 2766-008	M Date Colle	atrix: Soil ected: 05.07.13	15.10	Date Received: 05.09.13 09			
Analytical Method:	Percent Moisture							
Tech:	SHSM				% Moisture:			
Analyst:	WRU				Basis: We	Weight		
Seq Number:	913378							
Parameter	Cas	Number Resul	t RL	Units	Analysis Date	Flag	Dil	
Percent Moisture	TMC	DIST 13.	7 1.00	%	05.09.13 15.00		1	





Conestoga Rovers & Associates, Midland, TX

Sample Id: SE	3-2 5'		Matri	x: Soil		Ľ	Date Received: 05.	09.13 09.1	0	
Lab Sample Id: 46	2766-009		Date Collecte	d: 05.08.13	3 10.20					
Analytical Method:	Inorganic An	ions by EPA 300/3	00.1				Prep Method: E3	00P		
Tech:	AMB					% Moisture: 7.46				
Analyst:	AMB		Date	Prep: 0	5.10.13 10.00		Basis: Dr	Weight		
Seq Number:	913663									
Parameter	r à l'	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 Mois	ture								
Tech:	SHSM						% Moisture:			
Analyst:	WRU						Basis: We	t Weight		
Seq Number:	913378									

						4	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Percent Moisture	TMOIST	7.46	1.00	%	05.09.13 15.00		1



Seq Number:

913378

Certificate of Analytical Results 462766



Conestoga Rovers & Associates, Midland, TX

Sample Id: Lab Sample Id:	SB-2 10' 462766-010		Matri Date Collecte	Matrix: Soil te Collected: 05.08.13 10.25			Date Received: 05.09.13 09.10		
Analytical Method Tech: Analyst:	l: Inorganic AMB AMB	Anions by EPA 300/3	00.1 Date	Prep: 0:	5.10.13 10.00		Prep Method: E3 % Moisture: 8.6 Basis: Dry	00P 1 y Weight	
Seq Number:	913663								
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 M	oisture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t 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

Sample Id:SBLab Sample Id:462	Sample Id: SB-2 15' .ab Sample Id: 462766-011		Matr. Date Collecte	ix: Soil ed: 05.08.1	13 10.30	Γ	Date Received: 05.09.13 09.10				
Analytical Method:	Inorganic Ani	ons by EPA 300/3	00.1			Prep Method: E300P					
Tech:	AMB						% Moisture: 5.3				
Analyst:	AMB		Date	Prep:	05.10.13 10.00	Basis: Dry Weight					
Seq Number:	913663										
Parameter	Tran Stran	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 Moist	ure									
Tech:	SHSM						% Moisture:				
Analyst:	WRU						Basis: We	t 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

66-012	Date Collected	1: 05.08.	13 10.35		Jale Received: 05.	.09.13 09.10		
norganic Anions by EPA 300/3	300.1				Prep Method: E3	00P		
AMB	Date F	Prep:	05.10.13 10.00		Basis: Dry	Weight		
013663								
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil	
16887-00-6	63.2	4.21		mg/kg	05.11.13 03.36		2	
Percent Moisture					0/ 14-1-1-1-1			
	56-012 norganic Anions by EPA 300/3 MB 13663 Cas Number 16887-00-6 Percent Moisture	56-012 Date Collected norganic Anions by EPA 300/300.1 MB MB Date H 13663 Cas Number Result 16887-00-6 63.2 Percent Moisture HSM	56-012 Date Collected: 05.08. norganic Anions by EPA 300/300.1 MB MB MB Date Prep: 13663 Cas Number Result RL 16887-00-6 63.2 4.21 Percent Moisture	56-012 Date Collected: 05.08.13 10.35 norganic Anions by EPA 300/300.1 AMB MB MB Date Prep: 05.10.13 10.00 13663 Cas Number Result RL 16887-00-6 63.2 4.21	56-012 Date Collected: 05.08.13 10.35 norganic Anions by EPA 300/300.1 AMB MB MB Date Prep: 05.10.13 10.00 13663 Cas Number Result RL Units 16887-00-6 63.2 4.21 mg/kg	56-012 Date Collected: 05.08.13 10.35 norganic Anions by EPA 300/300.1 Prep Method: E30 MB Date Prep: 05.10.13 10.00 MB Date Prep: 05.10.13 10.00 Basis: Dry 13663 Basis: Dry Cas Number Result RL Units Analysis Date 16887-00-6 63.2 4.21 mg/kg 05.11.13 03.36	56-012 Date Collected: 05.08.13 10.35 norganic Anions by EPA 300/300.1 Prep Method: E300P MB Date Prep: 05.10.13 10.00 MB Date Prep: 05.10.13 10.00 13663 Basis: Dry Weight 13663 Image: Cas Number Result RL 16887-00-6 Result RL 1000 Percent Moisture % Moisture: % Moisture % 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

Sample Id:SILab Sample Id:46	Sample Id: SB-2 40' .ab Sample Id: 462766-013			x: Soil d: 05.08.13 10.4	0	Date Received: 05.09.13 09.10				
Analytical Method: Tech: Analyst:	Inorganic A AMB AMB	anions by EPA 300/3	00.1 Date	Prep: 05.10.	13 10.00	Prep Method: E3 % Moisture: 6.2 Basis: Dr	00P 27 y Weight			
Seq Number:	913663		41	in the second			in la fi			
Parameter		Cas Number	Result	RL	Unit	s Analysis Date	Flag	Dil		
Chloride		16887-00-6	28.9	4.27	mg/kg	05.11.13 03.57		2		
Analytical Method:	Percent Mo	isture								
Tech:	SHSM					% Moisture:				

Analyst: WRU					Basis: Wet Weight				
Seq Number:	913378			•					
Parameter	ener et a	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

Sample Id: Lab Sample Id:	SB-2 50' 462766-014]	Matriz Date Collected	x: Soil d: 05.08.	13 10.45	1	Date Received: 05.	09.13 09.1	0
Analytical Method Tech: Analyst: Seq Number:	l: Inorganic AMB AMB 913663	Anions by EPA 300/30	0.1 Date 1	Prep:	05.10.13 10.	00	Prep Method: E3 % Moisture: 5.8 Basis: Dr	00P 2 y Weight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	102	4.25	5	mg/kg	05.11.13 04.19		2
Analytical Method	ercent M	oisture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t 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

Sample Id: S Lab Sample Id: 4	5B-2 70' 162766-015		Matrix: Soil Date Collected: 05.08.13 10.50			Date Received: 05.09.13 09.10				
Analytical Method:	Inorganic An	ions by EPA 300/3	00.1				Prep Method: E3	00P		
Tech:	AMB						% Moisture: 4.3	7		
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	y Weight		
Seq Number:	913663									
Parameter	in a francisco de la composición de la	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 Mois	ture									
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		





Conestoga Rovers & Associates, Midland, TX

Sample Id:SLab Sample Id:40		Matrix: Soil Date Collected: 05.08.13 11.05				Date Received: 05.09.13 09.10				
Analytical Method:	Percent Moistu	re								
Tech:	SHSM						% Moisture:			
Analyst:	WRU						Basis: We	t Weight		
Seq Number:	913386									
Parameter		Cas Number	Result	RL	Un	its	Analysis Date	Flag	Dil	
Percent Moisture		TMOIST	5.04	1.00	%		05.09.13 16.00		1	





Conestoga Rovers & Associates, Midland, TX

Sample Id:SLab Sample Id:4	B-3 5' 62766-017		Matrix: Soil Date Collected: 05.08.13 12.00				Date Received: 05.09.13 09.10				
Analytical Method: Tech: Analyst: Seq Number:	Inorganic An AMB AMB 913663	iions by EPA 300/3	00.1 Date I	Prep:	05.10.13 10.00		Prep Method: E30 % Moisture: 2.1 Basis: Dry	00P 7 y Weight			
Parameter Chloride		Cas Number 16887-00-6	Result 713	RL 20.4	4	Units mg/kg	Analysis Date 05.11.13 06.07	Flag	Dil 10		

Analytical Method:	Percent Mois	ture							
Tech: SHSM				% Moisture:					
Analyst:	WRU					Basis: We	t Weight	t less	
Seq Number:	913386								
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

Sample Id: Lab Sample Id:	SB-3 10' 462766-018	1	Matriz Date Collected	Matrix: Soil te Collected: 05.08.13 12.05			Date Received: 05.	09.13 09.10)
Analytical Method Tech: Analyst: Seq Number:	l: Inorganic AMB AMB 913663	Anions by EPA 300/30	0 0.1 Date 1	Prep:	05.10.13 10.0	0	Prep Method: E3 % Moisture: 5.7 Basis: Dr	00P 1 y Weight	
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	l: Percent M	loisture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	et 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





Conestoga Rovers & Associates, Midland, TX

Sample Id:SB-Lab Sample Id:462	3 15' 766-019 Date	Matrix: Soil Collected: 05.08.13 12.07	Date Received: 05.09.13 09.10
Analytical Method:	Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Tech:	AMB		% Moisture: 6.01
Analyst: Seq Number:	AMB 913663	Date Prep: 05.10.13 10.00	Basis: Dry Weight
Parameter	Cas Number	Result RL	UnitsAnalysis DateFlagDilmg/kg05.11.13 06.5110
Chloride	16887-00-6	914 21.3	

Analytical Method: Percent Moisture										
Tech: SHSM					% Moisture:					
Analyst:	WRU					Basis: We	et Weight			
Seq Number:	913386									
Parameter	1.1. A.	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

Sample Id: Lab Sample Id:	SB-3 20' 462766-020	Matrix: Soil Date Collected: 05.08.13 12.10					Date Received: 05.09.13 09.10					
Analytical Method:Inorganic AnTech:AMBAnalyst:AMBSeq Number:913663		nions by EPA 300/300.1 Date Prep: 05.10.13 10.00					Prep Method: E300P % Moisture: 4.91 Basis: Dry Weight					
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	d: Percent Moi	sture										
Tech:	SHSM						% Moisture:					
Analyst:	WRU						Basis: We	t 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





Conestoga Rovers & Associates, Midland, TX

Sample Id: SI	3-3 40'		Matri	x: Soil		Ι	Date Received: 05.	.09.13 09.1	10	
Lab Sample Id: 46	2766-021		Date Collecte	d: 05.08.	13 12.13					
Analytical Method:	Inorganic A	nions by EPA 300/3	00.1				Prep Method: E3	00P		
Tech:	AMB						% Moisture: 5.6	8		
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dr	y 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 Moi	sture								
Tech:	SHSM						% Moisture:			
Analyst:	WRU						Basis: We	et 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

Sample Id: Lab Sample Id:	SB-3 50' 462766-022	Date	Matrix e Collected	:: Soil l: 05.08.	13 12.15	Ι	Date Received: 05.	09.13 09.10	0
Analytical Method Tech: Analyst: Seq Number:	: Inorganic Anio AMB AMB 913664	ons by EPA 300/300.1	Date I	Prep:	05.10.13 10.00		Prep Method: E30 % Moisture: 5.2 Basis: Dry	00P 2 7 Weight	
Parameter Chloride		Cas Number 16887-00-6	Result 105	RL 4.22	2	Units mg/kg	Analysis Date 05.11.13 10.06	Flag	Dil 2
Analytical Method Tech: Analyst: Seq Number:	Percent Moiste SHSM WRU 913386	ure					% Moisture: Basis: We	t Weight	

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

Sample Id: SI	B-3 70'		Matri	x: Soil		Γ	Date Received: 05.	09.13 09.1	10
Lab Sample Id: 46	52766-023		Date Collecte	d: 05.08.	13 12.20				
Analytical Method:	Inorganic An	ions by EPA 300/3	00.1				Prep Method: E3	00P	
Tech:	AMB						% Moisture: 4.4	8	
Analyst:	AMB		Date	Prep:	05.10.13 10.00		Basis: Dry	Weight	
Seq Number:	913664								
Parameter	1-2	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 Mois	ture							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913386								
Parameter	and the second	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

Sample Id:SELab Sample Id:46	3-3 90' 2766-024		Matrix Date Collected	: Soil : 05.08.13 12	.25	D	ate Received: 05.	09.13 09.1	0
Analytical Method:	Percent Moistu	re							
Tech:	SHSM						% Moisture:		
Analyst:	WRU						Basis: We	t Weight	
Seq Number:	913386								
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Percent Moisture		TMOIST	5.38	1.00		%	05.09.13 16.00		1



Flagging Criteria

- 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.

LOD Limit of Detection

LOQ Limit of Quantitation

* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit

PQL Practical Quantitation Limit MQL Method Quantitation Limit

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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Final 1.000



QC Summary 462766



Conestoga Rovers & Associates

Analytical Method: Seq Number:	Inorganic 913663	Anions b	y EPA 300	/300.1	Matrix:	Solid			Pr	ep Meth Date Pr	od: E30 ep: 05/1	0P 10/2013	
MB Sample Id:	638042-1-E	BLK		LCS Sat	mple Id:	638042-1	-BKS		LCSI	D Sample	e Id: 638	042-1-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: Seq Number:	Inorganic A 913664	Anions b	oy EPA 300	/300.1	Matrix:	Solid			Pr	ep Metho Date Pr	od: E30 ep: 05/1	0P 0/2013	
MB Sample Id:	638044-1-E	BLK		LCS Sa	mple Id:	638044-1	-BKS		LCSI	D Sample	e Id: 638	044-1-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 b	y EPA 300	/300.1					Pr	ep Meth	od: E30	0P	
Seq Number:	913663	1		MS Sa	Matrix:	Soil 462766-0	01 S			Date Pr	ep: 05/1	0/2013	
Parameter	402700-001	Parent Result	Spike Amount	MS Result	MS %Rec	1027000		Limits			Units	Analysis Date	Flag
Chloride		2090	1070	3410	123			80-120			mg/kg	05/10/13 22:32	Х
Analytical Method:	Inorganic	Anions b	y EPA 300	/300.1					Pr	ep Metho	od: E30	0P	
Seq Number:	913663			MCC	Matrix:	Soil	10 0			Date Pr	ep: 05/1	0/2013	
Parent Sample Id:	462766-018	Barrat	C. lles	MS Sai	npie id:	402/00-0	18 5	Limite			Unito	Amalausia	
Parameter		Result	Amount	Result	%Rec			Limits			Units	Date	Flag
Chloride		612	265	848	89			80-120			mg/kg	05/11/13 03:14	
Analytical Method:	Inorganic A	Anions b	y EPA 300	/300.1		6.1			Pr	ep Meth	od: E30	0P	
Seq Number: Parent Sample Id:	913664 462766-021			MS Sat	matrix:	Soil 462766-0	21 S			Date Pr	ep: 05/1	0/2013	
Parameter	102700-021	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	



QC Summary 462766

Conestoga Rovers & Associates

CEMC NM Ostate #40

Analytical Method:Percent MoistureSeq Number:913378

Parameter

Percent Moisture

Analytical Method:Percent MoistureSeq Number:913386

Parameter

Percent Moisture

Analytical Method:	Percent Mo	isture
Seq Number:	913378	
Parent Sample Id:	462621-005	
Parameter	· · · · · · · · · · · · · · · · · · ·	Parent Result
Percent Moisture		11.1

Analytical Method:	Percent Moisture
Seq Number:	913386
Parent Sample Id:	462766-016
Parameter	Parent Result
Percent Moisture	5.04

Matrix: Solid MB Sample Id: 913378-1-BLK MB Result ND

Matrix: Solid MB Sample Id: 913386-1-BLK MB Result ND

Matrix: Soil MD Sample Id: 462621-005 D MD Result 10.6

Matrix: Soil MD Sample Id: 462766-016 D MD Result

4.87

Units Analysis Flag Date 5/09/13 14:00

Units Analysis Flag Date 9% 05/09/13 16:00

%RPD	RPD Limit	Units	Analysis Date	Flag
5	20	%	05/09/13 14:00	

%RPD	RPD Limit	Units	Analysis Date	Flag
3	20	%	05/09/13 16:00	

Final 1.000

Open and sounding Dire: Invoice with Final Report Director must have a P.O. Constant Report Director Director must have a P.O. Director Clear	harges and Collection Fees are pre-approved if	9:10 hereby requested. Rush Ch	m 51/13	murch	6) /		5
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W DW OAPP MDLs RLS See Lab PM Included Call PM) WTREE EtOH Oxyg VOHS VOI Appdx-1 Appdx-2 CALL Other 8270 MA EPH MA VPH BN&AE TCLP PP Appdx-2 Herbicides OP Pesticides A Pb 13PP 23TAL Appdx 1 App VOCs SVOCs Pest. Herb. P POLS 300, 000 MTBE EtOH 0, yg S Highest Higher 24h 48h 3d 7d 10d mg/L W, mg/Kg S Highest Higher pre-approved as needed	12h rchar	etals	TEX-I DW 10 GRO DW CBs	(tw)	-Signature Jak	ALT TOPAL	ampler Name
UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP P.O. NO: P.O. NO: Call for P.O. EtOH Oxyg VOHs VO: x-1 Appdx-2 CALL Other EPH MA VPH AE TCLP PP Appdx-2 icides OP Pesticides D13PP 23TAL Appdx 1 App s SVOCs Pest. Herb. P Call for P.O. EtOH Oxyg VOHS VO: x-1 Appdx-2 CALL Other Fight Strong Point Comparison D13PP 23TAL Appdx 1 App s SVOCs Pest. Herb. P Call for P.O. EtOH Oxyg VOHS VO: x-1 Appdx-2 CALL Other Fight Strong Point Comparison D13PP 23TAL Appdx 1 App s SVOCs Pest. Herb. P Call for P.O. EtOH Oxyg VOHS VO: x-1 Appdx-2 CALL Other Fight Strong Point Comparison D13PP 23TAL Appdx 1 App s SVOCs Pest. Herb. P	24h mg/L ges wi	VOC	MTBE Appd: 8270 MA I BN& Herb	Call PM)	See Lab PM Included	W QAPP MDLs RLs	pecial DLs (GW [
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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 assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

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 assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

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Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

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Final 1.000



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & Associates Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/09/2013 09:10:00 AM **Temperature Measuring device used :** Work Order #: 462766 Comments

Sample Receipt Checklist #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 HNO3, HCL, H2SO4? Yes #22 >10 for all samples preserved with NaAsO2+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: Murshoah Kelsey Brooks Checklist reviewed by: Murshoah Kelsey Brooks

Date: 05/09/2013

Date: 05/09/2013