

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

X Initial Report ~~X Final Report~~

Name of Company	Chevron Midcontinent LP	Contact	Larry Ridenour
Address	HCR 60 Box 423 Lovington, NM 88260	Telephone No.	505-396-4414 x128
Facility Name	Lovington San Andres Unit #22	Facility Type	oil well

Surface Owner	City of Lovington	Mineral Owner	State	Lease No.	B7845
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LOCATION OF RELEASE

API #30025053510000

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	31	16S	37E	660	South	660	East	Lea

Latitude N 32 deg 52 min 23.6 sec Longitude W 103 deg 18 min 5.3 sec

NATURE OF RELEASE

Type of Release	produced water and crude oil	Volume of Release	35 bbl water and 1/2 bbl oil	Volume Recovered	20 bbl fluid
Source of Release	Well head	Date and Hour of Occurrence	06/04/07 10:00 AM	Date and Hour of Discovery	06/04/07 10:00 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Pat Caperton (left message on answering machine)		
By Whom?	Larry Williams	Date and Hour	6/04/07 1:30 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			



If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Well was in the process of getting well ready for plugging rig. Tubing was out of the well and well secured for the weekend. Off side casing developed a leak in the nipple between wellhead and casing valve. The entire spill remained on location. Request to do clean up after the well is plugged and abandoned. We will have to do the final clean up of the location since the location is being abandoned.
Chlorides 35,302 ppm Crude oil gravity 38

Describe Area Affected and Cleanup Action Taken.*
Affected area approximately 100' x 40'.
Once the well is plugged and abandoned; we will go in and clean up the entire locations. Remove contaminated soil and take to land farm or fill.

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

Signature: <i>Larry Williams</i>	OIL CONSERVATION DIVISION	
Printed Name: Larry Williams	Approved by District Supervisor: <i>[Signature]</i>	
Title: HES Specialist	Approval Date: 6-29-07	Expiration Date: 9-10-07
E-mail Address: lcwl@Chevron.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 6/04/07 Phone: 505-396-4414 x128	SUBMIT FINAL C-141	

* Attach Additional Sheets If Necessary

NOTIFY OCS WHEN CLEAN UP COMMENCES

RF#1477

SITE INFORMATION

Report Type: CLOSURE REQUEST

RP # 1477

CRA Project # 073815

General Site Information:

Site:	Lovington San Andres Unit #22
Company:	Chevron Environmental Management Company
Well Location:	Section 31, T-16-S, R-37-E
Unit Letter:	Unit N
API #:	30-025-05351
Lease Number:	--
County:	Lea County
Surface Owner:	City of Lovington
Mineral Owner:	State of New Mexico
Directions:	From Lovington, travel southeast along Highway 18 approx. 6 miles to Lovington Paddock Chevron Lease road entrance. Turn right (southwest) onto lease road and travel approx 0.05 miles to north-south lease road. Turn left at lease road and travel approx 0.1 miles. Turn right (west) and travel approx. 300 feet to former well location.

Release Data:

Spill GPS:	
Date Released:	6/4/2007
Source of Contamination:	Release during well plugging activities <i>removed</i>
Fluid Released:	35 barrels of water
Fluids Recovered:	20 barrels of water

removed
Spill Response
Environmental Services

Official Communication:

	Contact #1	Contact #2
Name:	Matt Hudson	Tom Larson
Company:	CEMC - Upstream Business Unit	CRA
Address:	1400 Smith Street Room 07062	2135 S Loop 250 West
P.O. Box:		
City:	Houston Texas 77002	Midland Texas 79703
Phone Number:	713-372-9207	432-686-0086
Fax Number:		432-686-0186
Email:	mhudson@croworld.com	tlarson@croworld.com

NMOCB-DIST
7/02/14

Ranking Criteria:

Depth to Groundwater:	Ranking Score:	Site Data:
<50 ft.	20	
50-99 ft.	10	10
>100 ft.	0	
Wellhead Protection:	Ranking Score:	Site Data:
Water Source <1,000 ft., Private <200 ft.	20	20
Water Source >1,000 ft., Private >200 ft.	0	
Surface Body of Water:	Ranking Score:	Site Data:
<200 ft.	20	
200 ft. - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	30	

HOBSOCD

Acceptable Soil RRAL (mg/kg)			
Benzene	Total BTEX	TPH	Chlorides
10	50	100	250

JUL 29 2011

RECEIVED



**CONESTOGA-ROVERS
& ASSOCIATES**

2135 S. Loop 250 West
Midland, Texas 79703
Telephone: (432) 686-0086 Fax: (432) 686-0186
<http://www.craworld.com>

July 26, 2011

Reference No. 073815 (2)

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

HOBBS OCD

JUL 29 2011

RECEIVED

Re: Closure Request Report
Lovington San Andres Unit #22 (Well Pad) - API #30025053510000 (RP #1477)
Unit N, Section 31, T16S, R37E
Lea County, New Mexico

Dear Mr. Leking:

Conestoga-Rovers & Associates, Inc. (CRA), on behalf of Chevron Environmental Management Company (CEMC), is pleased to submit this closure request report for the subject Site.

PROJECT INFORMATION

The subject location is located approximately fifteen miles northwest of Hobbs, New Mexico (FIGURES 1 & 2). On June 4, 2007, Chevron Midcontinent LP (Chevron) submitted a release notification and corrective action C-141 form (Appendix A) initial report to the New Mexico Oil Conservation Division (NMOCD) describing a produced water/crude oil release of an estimated 35 barrels (20 barrels recovered) from between the wellhead and casing valve that occurred during well plugging activities. The approximate affected area was estimated at 40' x 100'.

There are numerous water wells in the vicinity of the Site. According to the Petroleum Recovery Research Center (PRRC) database and the New Mexico Office of the State Engineer (NMOSE), the average depth to groundwater in the immediate area of Lovington San Andres Unit (LSAU) #22 is approximately 70 feet below ground surface (bgs). A FIGURE depicting the average depths to groundwater, distance to surface water bodies and any wellheads is provided in APPENDIX B.

A risk-based evaluation was performed in accordance to the New Mexico Oil Conservation Division's (NMOCD's) guidance document *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. Section III of the guidance document provides three general characteristics (Depth to groundwater, Wellhead Protection Area, Distance to Nearest Surface Water Body) to "evaluate a Sites potential risk, the need for remedial action and if necessary, the level of cleanup required at the Site." Section IV provides ranking criteria for each Site-specific characteristic to determine their relative threat to public health, fresh waters and the environment. The sum of each individual characteristic equals the total ranking score. The total ranking score determines the recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (BTEX) and total petroleum hydrocarbons (TPH) in soil.

Equal
Employment Opportunity
Employer



Based on average depth to groundwater (50 feet-100 feet below ground surface), Wellhead Protection (water source is < 1,000 feet) and surface body of water was > 1,000 horizontal feet from the Site, the RRALs were determined to be 10 mg/kg for benzene, 50 mg/kg for BTEX, 100 mg/kg for TPH and 250 mg/kg for chlorides.

SITE ASSESSMENT ACTIVITIES

In 2010, Chevron re-initiated efforts to close the C-141 form. As a result, an environmental Site consultant (Tetra Tech) was contracted by Chevron to assess the soils prior to submittal of the final C-141 Site closure. In August 2010, soil samples were collected from three locations (T-1, T-2 & T-3) in the affected area of the release from 0-1 foot below ground surface (bgs) and from 2-2.5 feet bgs. Sample analyses included Total Petroleum Hydrocarbons (TPH), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and Chlorides. TPH and BTEX concentrations were below laboratory detection limits in all three sample locations at the 0-1 foot intervals, thus were not analyzed at the deeper interval; Chlorides were analyzed in both intervals and results were compared to the Site-specific recommended remedial action levels (RRALs)-250 mg/kg. Results indicated concentrations above the RRALs in two (T-2 & T-3) the three samples for both intervals (0-1' & 2-2.5').

In May 2011, five soil borings in the affected area were installed to a depth of 40 feet bgs; Soil samples at five foot intervals were collected and sent to ALS Laboratories of Houston, Texas for chloride analyses using EPA Method 300. The top 4 soil samples (5 to 20 foot) from each boring were analyzed while the bottom four were placed on hold pending analyses. The soil borings were plugged with bentonite. The soil data from both the August 2010 and May 2011 assessments are provided in FIGURE 3. The May 2011 boring program demonstrated two consecutive sample intervals in all five borings below the RRAL for chlorides and defined the horizontal and vertical extent of the chloride impacts.

PROPOSED SITE CLOSURE ACTIVITIES

Based on soil data collected from the August 2010 & May 2011 assessment activities, the following restoration tasks are proposed for this former well location:

- Over-excavate well pad area to a total depth of 3 feet below ground surface (bgs) as determined by assessment activities. Excavation activities will be performed without compromising existing surface structures (i.e. oilwell, pumpjack, existing flowlines, electrical lines, etc); and
- Transport and dispose of excavated soils at Sundance facility as non-hazardous oilfield (exempt) waste.
- Backfill excavation with clean backfill material from 3 feet to 1 foot;
- Lay a 20 mil poly liner in excavated area, cover and compact area with heavy equipment and clean backfill and topsoil material;
- Rip and seed 'constructed affected' locations and plant seed with approved mixture and using procedures as designated by property owner; and
- Submit a final C-141 to the NMOCD detailing completion of work activities.



**CONESTOGA-ROVERS
& ASSOCIATES**

July 26, 2011

3

Reference No. 073815 (2)

CRA will provide the New Mexico Oil Conservation Division (NMOCD) a 48 hour notification prior to commencing field activities. If you have any questions or comments with regards to this closure request, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,
CONESTOGA-ROVERS & ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'James Ornelas', written in a cursive style.

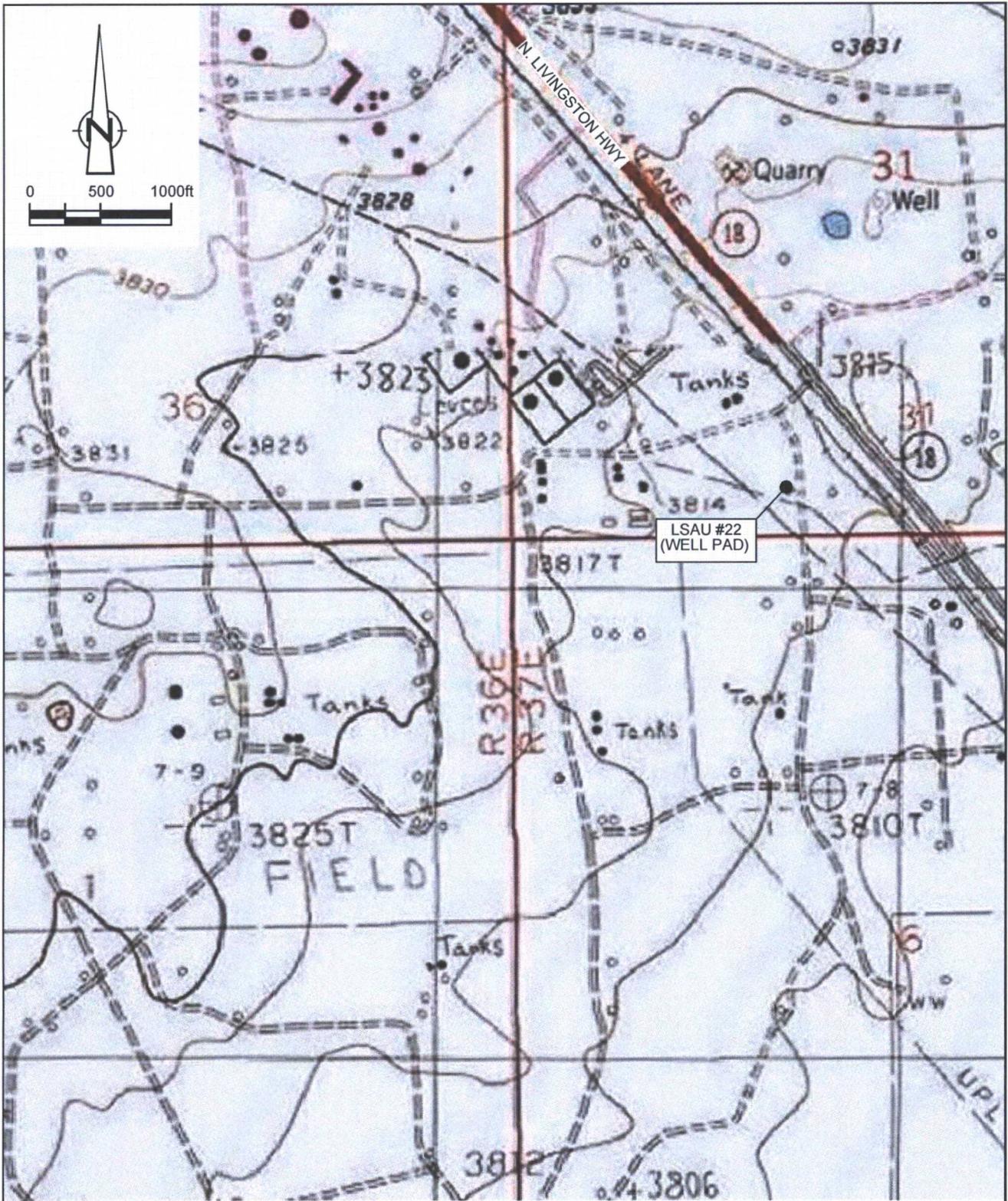
James Ornelas
Project Manager

A handwritten signature in blue ink, appearing to read 'Thomas C. Larson', written in a cursive style.

Thomas C. Larson, P.G.
Sr. Geologist/Operations Manager

Enclosures

Cc: Matt Hudson, CEMC
Allen Bennett, AECOM



SOURCE: USGS TOPOGRAPHIC MAP
 32° 52' 20.2" N
 103° 17' 34.6" W

figure 1

SITE VICINITY MAP
 LSAU #22 (WELL PAD)
 LEA COUNTY, NEW MEXICO

Chevron Environmental Management Company





SOURCE: USGS TOPOGRAPHIC MAP
32° 52' 20.2" N
103° 17' 34.6" W

figure 2

SITE LOCATION MAP
LSAU #22 (WELL PAD)
LEA COUNTY, NEW MEXICO

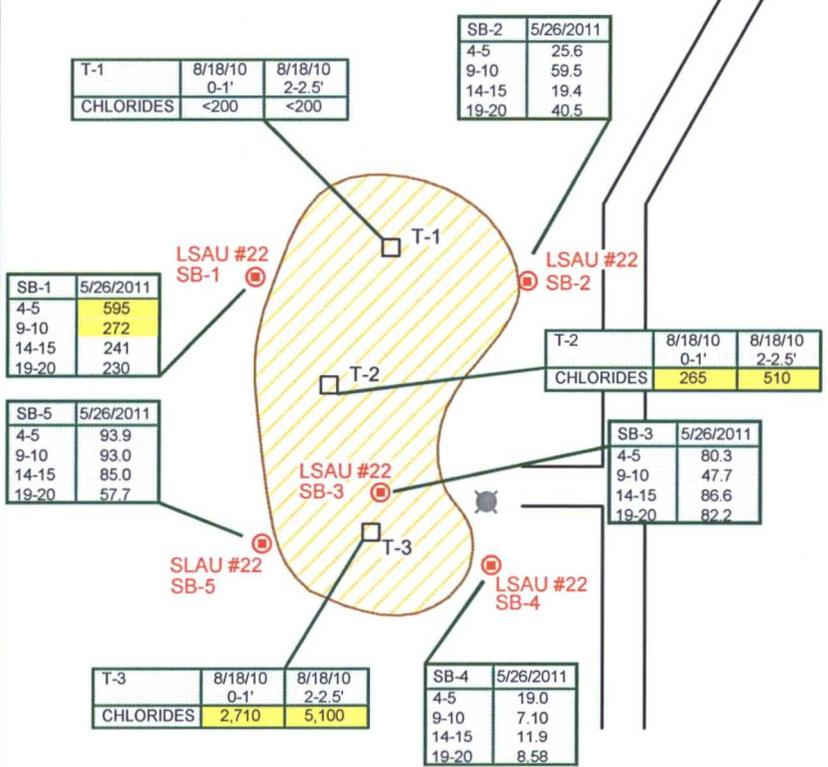
Chevron Environmental Management Company





NOT TO SCALE

LOVINGTON HIGHWAY



LEGEND

- PLUGGED WELL (LSAU #22)
- BORING LOCATIONS (MAY 2011)
- SAMPLE TRENCHES (AUGUST 2010)
- ASSESSMENT AREA

SAMPLE ID	8/18/10	8/18/10	SAMPLE DATE
	0-1'	2-2.5'	
T-1	250	100	
CHLORIDES			RESULT (mg/Kg)

ABOVE REGULATORY LIMITS

figure 3

**SOIL CHLORIDE RESULTS MAP
LSAU #22 (WELL PAD)
LEA COUNTY, NEW MEXICO**

Chevron Environmental Management Company



TABLE I
SOIL ANALYTICAL SUMMARY
AUGUST 2010
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
LOVINGTON SAN ANDRES UNIT #22 (WELL PAD)
LEA COUNTY, NEW MEXICO

Sample ID	Depth (feet)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH (8015B Modified)			Chlorides (mg/kg)
								DRO (mg/kg)	GRO (mg/kg)	(GRO/DRO) (mg/kg)	
NMOCDC Recommended Remediation Action Levels (Total Ranking Score > 20)											
			10 mg/kg	--- mg/kg	--- mg/kg	--- mg/kg	50 mg/kg	--- mg/kg	--- mg/kg	100 mg/kg	250 mg/kg
T-1	0-1	8/18/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	<200
	2-2.5	8/18/10	NA	NA	NA	NA	NA	NA	NA	NA	<200
T-2	0-1	8/18/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	265
	2-2.5	8/18/10	NA	NA	NA	NA	NA	NA	NA	NA	510
T-3	0-1	8/18/10	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00	<50.0	2,710
	2-2.5	8/18/10	NA	NA	NA	NA	NA	NA	NA	NA	5,100

Notes:

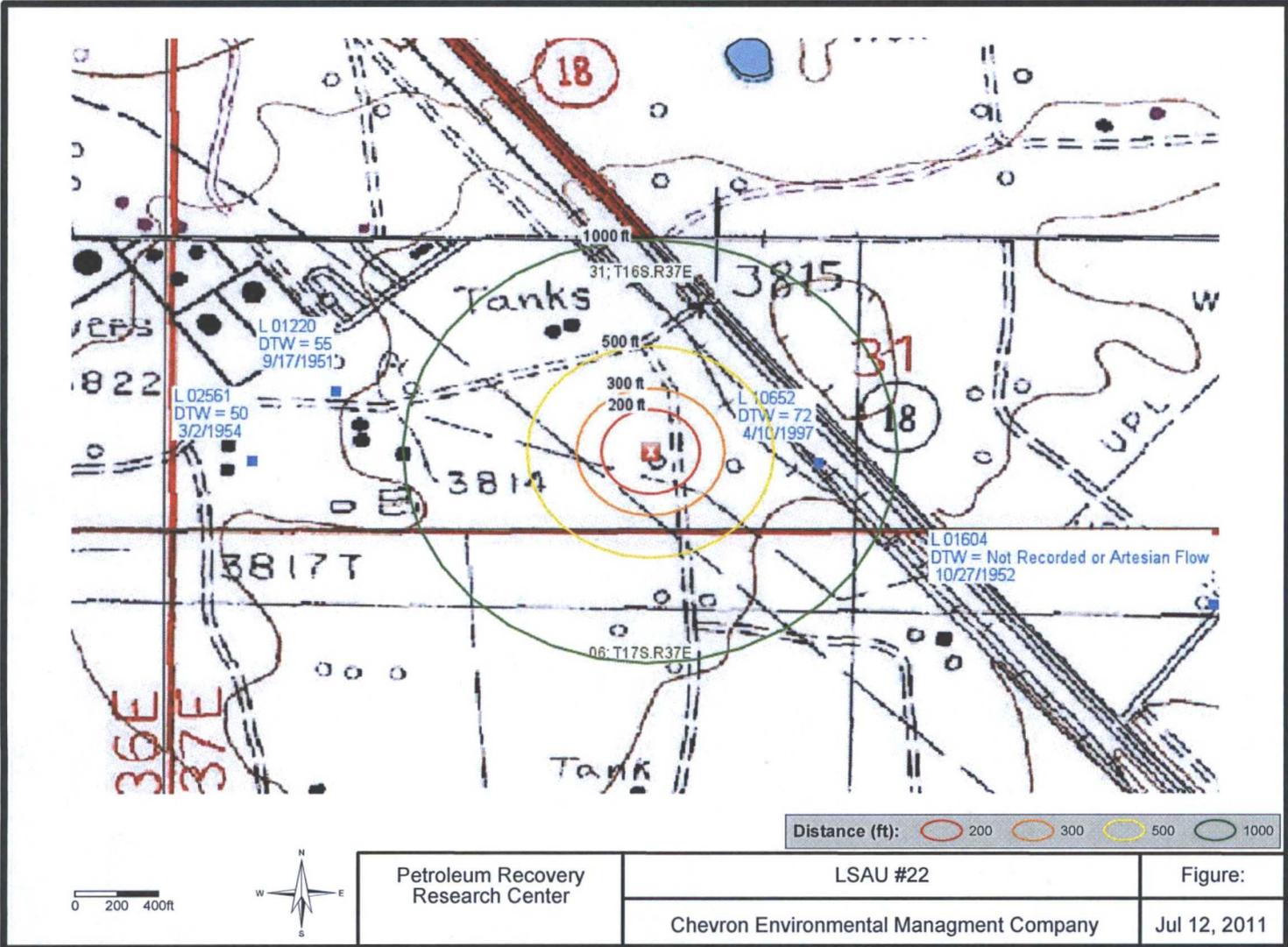
1. BTEX analyses by EPA Method 8021B.
2. TPH analyzed by EPA Method 8015B Mod.
3. Chlorides analyzed by SM 4500-Cl B
4. NA - Not Analyzed
5. Bold concentrations above lab reporting limits.
6. Highlighted cells indicated concentrations above regulatory limits

TABLE II
SOIL ANALYTICAL SUMMARY
MAY 2011
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
LOVINGTON SAN ANDRES UNIT #22 (WELL PAD)
LEA COUNTY, NEW MEXICO
NMOCD Recommended Remediation Action Levels (Total Ranking Score > 20)

Sample ID	Depth (feet)	Sample Date	Chlorides (mg/kg)
NMOCD RRAL (Site Specific Ranking = 20)			250
SB-1	4-5	5/26/11	595
	9-10	5/26/11	272
	14-15	5/26/11	241
	19-20	5/26/11	230
SB-2	4-5	5/26/11	25.6
	9-10	5/26/11	59.5
	14-15	5/26/11	19.4
	19-20	5/26/11	40.5
SB-3	4-5	5/26/11	80.3
	9-10	5/26/11	47.7
	14-15	5/26/11	86.6
	19-20	5/26/11	82.2
SB-4	4-5	5/26/11	19.0
	9-10	5/26/11	7.10
	14-15	5/26/11	11.9
	19-20	5/26/11	8.58
SB-5	4-5	5/26/11	93.9
	9-10	5/26/11	93.0
	14-15	5/26/11	85.0
	19-20	5/26/11	57.7

Notes:

1. Chlorides analyzed by 300.0.
2. NA - Not Analyzed
3. Bold concentrations above lab reporting limits.
4. Highlighted cells indicated concentrations above regulatory limits





15-Jun-2011

James Ornelas
Conestoga-Rovers & Associates
2135 S Loop 250 West
Midland, TX 79703

Tel: (412) 686-0086
Fax: (432) 686-0186

Re: Lovington San Andes #22

Work Order: 1106008

Dear James,

ALS Environmental received 40 samples on 01-Jun-2011 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 33.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Makenzie L. Henderson

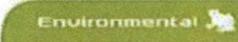
Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

BMT HSPVQVTE-IDP SQHQbsutpghif f BMT MbcpsbupsczfHspvq!HB Dbn qc frmEspui fst Bgn jife Dpn qboz



www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
 Project: Lovington San Andes #22
 Work Order: 1106008

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1106008-01	LSAU#22 SB-1 4'-5'	Soil		5/26/2011 11:20	6/1/2011 09:00	<input type="checkbox"/>
1106008-02	LSAU#22 SB-1 9'-10'	Soil		5/26/2011 11:22	6/1/2011 09:00	<input type="checkbox"/>
1106008-03	LSAU#22 SB-1 14'-15'	Soil		5/26/2011 11:24	6/1/2011 09:00	<input type="checkbox"/>
1106008-04	LSAU#22 SB-1 19'-20'	Soil		5/26/2011 11:26	6/1/2011 09:00	<input type="checkbox"/>
1106008-05	LSAU#22 SB-1 24'-25'	Soil		5/26/2011 11:28	6/1/2011 09:00	<input type="checkbox"/>
1106008-06	LSAU#22 SB-1 29'-30'	Soil		5/26/2011 11:30	6/1/2011 09:00	<input type="checkbox"/>
1106008-07	LSAU#22 SB-1 34'-35'	Soil		5/26/2011 11:32	6/1/2011 09:00	<input type="checkbox"/>
1106008-08	LSAU#22 SB-1 39'-40'	Soil		5/26/2011 11:34	6/1/2011 09:00	<input type="checkbox"/>
1106008-09	LSAU#22 SB-2 4'-5'	Soil		5/26/2011 10:42	6/1/2011 09:00	<input type="checkbox"/>
1106008-10	LSAU#22 SB-2 9'-10'	Soil		5/26/2011 10:44	6/1/2011 09:00	<input type="checkbox"/>
1106008-11	LSAU#22 SB-2 14'-15'	Soil		5/26/2011 10:46	6/1/2011 09:00	<input type="checkbox"/>
1106008-12	LSAU#22 SB-2 19'-20'	Soil		5/26/2011 10:40	6/1/2011 09:00	<input type="checkbox"/>
1106008-13	LSAU#22 SB-2 24'-25'	Soil		5/26/2011 10:50	6/1/2011 09:00	<input type="checkbox"/>
1106008-14	LSAU#22 SB-2 29'-30'	Soil		5/26/2011 10:52	6/1/2011 09:00	<input type="checkbox"/>
1106008-15	LSAU#22 SB-2 34'-35'	Soil		5/26/2011 10:54	6/1/2011 09:00	<input type="checkbox"/>
1106008-16	LSAU#22 SB-2 39'-40'	Soil		5/26/2011 10:56	6/1/2011 09:00	<input type="checkbox"/>
1106008-17	LSAU#22 SB-3 4'-5'	Soil		5/26/2011 11:50	6/1/2011 09:00	<input type="checkbox"/>
1106008-18	LSAU#22 SB-3 9'-10'	Soil		5/26/2011 11:52	6/1/2011 09:00	<input type="checkbox"/>
1106008-19	LSAU#22 SB-3 14'-15'	Soil		5/26/2011 11:54	6/1/2011 09:00	<input type="checkbox"/>
1106008-20	LSAU#22 SB-3 19'-20'	Soil		5/26/2011 11:56	6/1/2011 09:00	<input type="checkbox"/>
1106008-21	LSAU#22 SB-3 24'-25'	Soil		5/26/2011 11:50	6/1/2011 09:00	<input type="checkbox"/>
1106008-22	LSAU#22 SB-3 29'-30'	Soil		5/26/2011 12:00	6/1/2011 09:00	<input type="checkbox"/>
1106008-23	LSAU#22 SB-3 34'-35'	Soil		5/26/2011 12:02	6/1/2011 09:00	<input type="checkbox"/>
1106008-24	LSAU#22 SB-3 39'-40'	Soil		5/26/2011 12:04	6/1/2011 09:00	<input type="checkbox"/>
1106008-25	LSAU#22 SB-4 4'-5'	Soil		5/26/2011 12:30	6/1/2011 09:00	<input type="checkbox"/>
1106008-26	LSAU#22 SB-4 9'-10'	Soil		5/26/2011 12:32	6/1/2011 09:00	<input type="checkbox"/>
1106008-27	LSAU#22 SB-4 14'-15'	Soil		5/26/2011 12:34	6/1/2011 09:00	<input type="checkbox"/>
1106008-28	LSAU#22 SB-4 19'-20'	Soil		5/26/2011 12:36	6/1/2011 09:00	<input type="checkbox"/>
1106008-29	LSAU#22 SB-4 24'-25'	Soil		5/26/2011 12:38	6/1/2011 09:00	<input type="checkbox"/>
1106008-30	LSAU#22 SB-4 29'-30'	Soil		5/26/2011 12:40	6/1/2011 09:00	<input type="checkbox"/>
1106008-31	LSAU#22 SB-4 34'-35'	Soil		5/26/2011 12:42	6/1/2011 09:00	<input type="checkbox"/>
1106008-32	LSAU#22 SB-4 39'-40'	Soil		5/26/2011 12:44	6/1/2011 09:00	<input type="checkbox"/>
1106008-33	LSAU#22 SB-5 4'-5'	Soil		5/26/2011 13:05	6/1/2011 09:00	<input type="checkbox"/>
1106008-34	LSAU#22 SB-5 9'-10'	Soil		5/26/2011 13:07	6/1/2011 09:00	<input type="checkbox"/>
1106008-35	LSAU#22 SB-5 14'-15'	Soil		5/26/2011 13:09	6/1/2011 09:00	<input type="checkbox"/>
1106008-36	LSAU#22 SB-5 19'-20'	Soil		5/26/2011 13:11	6/1/2011 09:00	<input type="checkbox"/>
1106008-37	LSAU#22 SB-5 24'-25'	Soil		5/26/2011 13:13	6/1/2011 09:00	<input type="checkbox"/>
1106008-38	LSAU#22 SB-5 29'-30'	Soil		5/26/2011 13:15	6/1/2011 09:00	<input type="checkbox"/>
1106008-39	LSAU#22 SB-5 34'-35'	Soil		5/26/2011 13:17	6/1/2011 09:00	<input type="checkbox"/>

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Work Order: 1106008

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1106008-40	LSAU#22 SB-5 39'-40'	Soil		5/26/2011 13:19	6/1/2011 09:00	<input type="checkbox"/>

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-1 4'-5'
Collection Date: 5/26/2011 11:20 AM

Work Order: 1106008
Lab ID: 1106008-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	595		4.98	mg/Kg	1	6/7/2011 08:43 PM
Surr: Selenate (surr)	97.9		85-115	%REC	1	6/7/2011 08:43 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	7.64		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-1 9'-10'
Collection Date: 5/26/2011 11:22 AM

Work Order: 1106008
Lab ID: 1106008-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	272		4.92	mg/Kg	1	6/7/2011 09:46 PM
Surr: Selenate (surr)	95.4		85-115	%REC	1	6/7/2011 09:46 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	9.41		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Sample ID: LSAU#22 SB-1 14'-15'

Collection Date: 5/26/2011 11:24 AM

Work Order: 1106008

Lab ID: 1106008-03

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	241		4.92	mg/Kg	1	6/7/2011 10:07 PM
Surr: Selenate (surr)	97.2		85-115	%REC	1	6/7/2011 10:07 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	7.38		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Sample ID: LSAU#22 SB-1 19'-20'

Collection Date: 5/26/2011 11:26 AM

Work Order: 1106008

Lab ID: 1106008-04

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	230		4.98	mg/Kg	1	6/7/2011 10:28 PM
Surr: Selenate (surr)	96.4		85-115	%REC	1	6/7/2011 10:28 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	5.28		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-2 4'-5'
Collection Date: 5/26/2011 10:42 AM

Work Order: 1106008
Lab ID: 1106008-09
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300			Prep Date: 6/7/2011 Analyst: TDW
Chloride	25.6		4.98	mg/Kg	1	6/7/2011 10:49 PM
Surr: Selenate (surr)	90.9		85-115	%REC	1	6/7/2011 10:49 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	8.42		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Sample ID: LSAU#22 SB-2 9'-10'

Collection Date: 5/26/2011 10:44 AM

Work Order: 1106008

Lab ID: 1106008-10

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	59.5		4.96	mg/Kg	1	6/7/2011 11:53 PM
Surr: Selenate (surr)	87.9		85-115	%REC	1	6/7/2011 11:53 PM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	7.73		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-2 14'-15'
Collection Date: 5/26/2011 10:46 AM

Work Order: 1106008
Lab ID: 1106008-11
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	19.4		4.95	mg/Kg	1	6/8/2011 12:14 AM
Surr: Selenate (surr)	89.3		85-115	%REC	1	6/8/2011 12:14 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	6.99		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-2 19'-20'
Collection Date: 5/26/2011 10:40 AM

Work Order: 1106008
Lab ID: 1106008-12
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300			
Chloride	40.5		4.93	mg/Kg	1	Analyst: TDW 6/8/2011 12:35 AM
Surr: Selenate (surr)	88.6		85-115	%REC	1	6/8/2011 12:35 AM
MOISTURE			SW3550			
Percent Moisture	7.32		0.0100	wt%	1	Analyst: KAH 6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-3 4'-5'
Collection Date: 5/26/2011 11:50 AM

Work Order: 1106008
Lab ID: 1106008-17
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	80.3		5.00	mg/Kg	1	6/8/2011 12:56 AM
Surr: Selenate (surr)	96.4		85-115	%REC	1	6/8/2011 12:56 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	8.84		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-3 9'-10'
Collection Date: 5/26/2011 11:52 AM

Work Order: 1106008
Lab ID: 1106008-18
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	47.7		4.98	mg/Kg	1	6/8/2011 01:17 AM
Surr: Selenate (surr)	96.4		85-115	%REC	1	6/8/2011 01:17 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	6.51		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-3 14'-15'
Collection Date: 5/26/2011 11:54 AM

Work Order: 1106008
Lab ID: 1106008-19
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	86.6		5.00	mg/Kg	1	6/8/2011 01:38 AM
Surr: Selenate (surr)	93.8		85-115	%REC	1	6/8/2011 01:38 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	7.29		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Sample ID: LSAU#22 SB-3 19'-20'

Collection Date: 5/26/2011 11:56 AM

Work Order: 1106008

Lab ID: 1106008-20

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	82.2		4.91	mg/Kg	1	6/8/2011 01:59 AM
Surr: Selenate (surr)	90.9		85-115	%REC	1	6/8/2011 01:59 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	6.82		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Sample ID: LSAU#22 SB-4 4'-5'

Collection Date: 5/26/2011 12:30 PM

Work Order: 1106008

Lab ID: 1106008-25

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	19.0		5.00	mg/Kg	1	6/8/2011 02:20 AM
Surr: Selenate (surr)	91.9		85-115	%REC	1	6/8/2011 02:20 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	4.20		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Work Order: 1106008

Sample ID: LSAU#22 SB-4 9'-10'

Lab ID: 1106008-26

Collection Date: 5/26/2011 12:32 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	7.10		4.98	mg/Kg	1	6/8/2011 02:41 AM
Surr: Selenate (surr)	89.4		85-115	%REC	1	6/8/2011 02:41 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	4.10		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-4 14'-15'
Collection Date: 5/26/2011 12:34 PM

Work Order: 1106008
Lab ID: 1106008-27
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	11.9		5.00	mg/Kg	1	6/8/2011 03:03 AM
Surr: Selenate (surr)	89.9		85-115	%REC	1	6/8/2011 03:03 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	11.1		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-4 19'-20'
Collection Date: 5/26/2011 12:36 PM

Work Order: 1106008
Lab ID: 1106008-28
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	8.58		4.91	mg/Kg	1	6/8/2011 04:06 AM
Surr: Selenate (surr)	88.0		85-115	%REC	1	6/8/2011 04:06 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	6.44		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-5 4'-5'
Collection Date: 5/26/2011 01:05 PM

Work Order: 1106008
Lab ID: 1106008-33
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300			Prep Date: 6/7/2011 Analyst: TDW
Chloride	93.9		4.98	mg/Kg	1	6/8/2011 04:27 AM
Surr: Selenate (surr)	91.1		85-115	%REC	1	6/8/2011 04:27 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	5.23		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-5 9'-10'
Collection Date: 5/26/2011 01:07 PM

Work Order: 1106008
Lab ID: 1106008-34
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	93.0		4.95	mg/Kg	1	6/8/2011 04:48 AM
Surr: Selenate (surr)	90.9		85-115	%REC	1	6/8/2011 04:48 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	8.80		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

Work Order: 1106008

Sample ID: LSAU#22 SB-5 14'-15'

Lab ID: 1106008-35

Collection Date: 5/26/2011 01:09 PM

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300		Prep Date: 6/7/2011	Analyst: TDW
Chloride	85.0		4.91	mg/Kg	1	6/8/2011 05:09 AM
Surr: Selenate (surr)	89.8		85-115	%REC	1	6/8/2011 05:09 AM
MOISTURE			SW3550			Analyst: KAH
Percent Moisture	6.40		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
Sample ID: LSAU#22 SB-5 19-:20
Collection Date: 5/26/2011 01:11 PM

Work Order: 1106008
Lab ID: 1106008-36
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ANIONS - EPA 300.0 (1993)			E300			
Chloride	57.7		4.93	mg/Kg	1	6/8/2011 05:30 AM
Surr: Selenate (surr)	91.7		85-115	%REC	1	6/8/2011 05:30 AM
MOISTURE			SW3550			
Percent Moisture	5.66		0.0100	wt%	1	6/2/2011 11:00 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 15-Jun-11

Client: Conestoga-Rovers & Associates
 Work Order: 1106008
 Project: Lovington San Andes #22

QC BATCH REPORT

Batch ID: 52989 Instrument ID ICS3000 Method: E300

MBLK	Sample ID: WBLKS1-060711-52989	Units: mg/Kg					Analysis Date: 6/7/2011 07:39 PM				
Client ID:	Run ID: ICS3000_110607B	SeqNo: 2416139	Prep Date: 6/7/2011	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	U	5.0									
Surr: Selenate (surr)	45.82	1.0	50	0	91.6	85-115	0				

LCS	Sample ID: WLCSS1-060711-52989	Units: mg/Kg					Analysis Date: 6/7/2011 08:01 PM				
Client ID:	Run ID: ICS3000_110607B	SeqNo: 2416140	Prep Date: 6/7/2011	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	208.1	5.0	200	0	104	90-110	0				
Surr: Selenate (surr)	49.38	1.0	50	0	98.8	85-115	0				

LCSD	Sample ID: WLCSDS1-060711-52989	Units: mg/Kg					Analysis Date: 6/7/2011 08:22 PM				
Client ID:	Run ID: ICS3000_110607B	SeqNo: 2416141	Prep Date: 6/7/2011	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	208.2	5.0	200	0	104	90-110	208.1	0.0673	20		
Surr: Selenate (surr)	49.27	1.0	50	0	98.5	85-115	49.38	0.223	20		

MS	Sample ID: 1106008-01AMS	Units: mg/Kg					Analysis Date: 6/7/2011 09:04 PM				
Client ID: LSAU#22 SB-1 4'-5'	Run ID: ICS3000_110607B	SeqNo: 2416143	Prep Date: 6/7/2011	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	687.9	5.0	99.6	595.5	92.8	75-125	0			O	
Surr: Selenate (surr)	47.78	1.0	49.8	0	95.9	80-120	0				

MS	Sample ID: 1106008-36AMS	Units: mg/Kg					Analysis Date: 6/8/2011 05:51 AM				
Client ID: LSAU#22 SB-5 19:-20	Run ID: ICS3000_110607B	SeqNo: 2416176	Prep Date: 6/7/2011	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	142.7	4.9	98.62	57.67	86.2	75-125	0				
Surr: Selenate (surr)	44.54	0.99	49.31	0	90.3	80-120	0				

MSD	Sample ID: 1106008-01AMSD	Units: mg/Kg					Analysis Date: 6/7/2011 09:25 PM				
Client ID: LSAU#22 SB-1 4'-5'	Run ID: ICS3000_110607B	SeqNo: 2416144	Prep Date: 6/7/2011	DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chloride	688.2	5.0	99.6	595.5	93.1	75-125	687.9	0.0463	20	O	
Surr: Selenate (surr)	47.73	1.0	49.8	0	95.8	80-120	47.78	0.104	20		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1106008
Project: Lovington San Andes #22

QC BATCH REPORT

Batch ID: **52989** Instrument ID **ICS3000** Method: **E300**

MSD Sample ID: **1106008-36AMSD** Units: **mg/Kg** Analysis Date: **6/8/2011 06:12 AM**

Client ID: **LSAU#22 SB-5 19-:20** Run ID: **ICS3000_110607B** SeqNo: **2416177** Prep Date: **6/7/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	142.4	4.9	98.62	57.67	85.9	75-125	142.7	0.18	20	
<i>Surr: Selenate (surr)</i>	<i>44.68</i>	<i>0.99</i>	<i>49.31</i>	<i>0</i>	<i>90.6</i>	<i>80-120</i>	<i>44.54</i>	<i>0.332</i>	<i>20</i>	

The following samples were analyzed in this batch:

1106008-01A	1106008-02A	1106008-03A
1106008-04A	1106008-09A	1106008-10A
1106008-11A	1106008-12A	1106008-17A
1106008-18A	1106008-19A	1106008-20A
1106008-25A	1106008-26A	1106008-27A
1106008-28A	1106008-33A	1106008-34A
1106008-35A	1106008-36A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 1106008
Project: Lovington San Andes #22

QC BATCH REPORT

Batch ID: **R110808** Instrument ID **Balance1** Method: **SW3550**

DUP Sample ID: **1106008-36ADUP** Units: **wt%** Analysis Date: **6/2/2011 11:00 AM**

Client ID: **LSAU#22 SB-5 19-:20** Run ID: **BALANCE1_110602D** SeqNo: **2410700** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	5.776	0.010	0	0	0	0-0	5.662	1.99	20	

The following samples were analyzed in this batch:

1106008-01A	1106008-02A	1106008-03A
1106008-04A	1106008-09A	1106008-10A
1106008-11A	1106008-12A	1106008-17A
1106008-18A	1106008-19A	1106008-20A
1106008-25A	1106008-26A	1106008-27A
1106008-28A	1106008-33A	1106008-34A
1106008-35A	1106008-36A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Project: Lovington San Andes #22
WorkOrder: 1106008

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram
wt%	



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Chain of Custody Form

Page of

COC ID: **33514**

1106008

CRA-MID: Conestoga-Rovers & Associates

Project: Lovington San Andes #22

ALS Project Manager:



Customer Information		Project Information		
Purchase Order		Project Name	Lovington San Andes #22	A
Work Order		Project Number	073815	B
Company Name	Conestoga-Rovers & Associates	Bill To Company	Conestoga-Rovers & Associates	C
Send Report To	James Ornelas	Invoice Attn	James Ornelas	D
Address	6520 Rcthway Ste. 100	Address	6320 Rcthway, Suite 100	E
				F
City/State/Zip	Houston, TX 77040	City/State/Zip	Houston, TX 77040	G
Phone	(713) 734-3090	Phone	(713) 734-3090	H
Fax	(713) 264-6133	Fax	(713) 734-3391	I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LSAU #22 SB-1 4'-5'	5/26/11	1126				X	X									
2	LSAU #22 SB-1 9'-10'	" "	1122				X	X									
3	LSAU #22 SB-1 14'-15'	" "	1124				X	X									
4	LSAU #22 SB-1 19'-20'	" "	1126				X	X									
5	LSAU #22 SB-1 24'-25'	" "	1128							HOLD							X
6	LSAU #22 SB-1 29'-30'	" "	1130							HOLD							X
7	LSAU #22 SB-1 34'-35'	" "	1132							HOLD							X
8	LSAU #22 SB-1 39'-40'	" "	1134							HOLD							X
9	LSAU #22 SB-2 4'-5'	" "	1042				X	X									
10	LSAU #22 SB-2 9'-10'	" "	1044				X	X									

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)			Results Due Date:	
				<input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour				
Relinquished by: <i>[Signature]</i>	Date: 5/31/11	Time: 1600	Received by:	Notes: 5 Day TAT.				
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input checked="" type="checkbox"/> Level II Std OC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD		
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035								

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COC ID: **33513**

ALS Environmental
 3352 128th Ave.
 Holland, MI 49424-9263
 Tel: +1 616 399 6070
 Fax: +1 616 399 6185

Customer Information			Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	Lovington Sar Andas #22		A	Anions (300) Cl												
Work Order		Project Number	073615		B	Moisture												
Company Name	Conestoga-Rovers & Associates		Bill To Company	Conestoga-Rovers & Associates		C												
Send Report To	James Ornelas		Invoice Attn	James Ornelas		D												
Address	6320 Rothway Ste. 100		Address	6320 Rothway, Suite 100		E												
						F												
City/State/Zip	Houston, TX 77040		City/State/Zip	Houston, TX 77040		G												
Phone	(713) 734-3090		Phone	(713) 734-3090		H												
Fax	(713) 284-6138		Fax	(713) 734-3391		I												
e-Mail Address			e-Mail Address			J												
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	LSAU# SB-2	14-15'	5/26/11				X	X										
2	LSAU# SB-2	19-20'	" "				X	X										
3	LSAU# SB-2	24-25'	" "						HOLD								X	
4	LSAU# SB-2	29-30'	" "						HOLD								X	
5	LSAU#22 SB-2	34-35'	" "						HOLD								X	
6	LSAU#22 SB-2	39-40'	" "						HOLD								X	
7	LSAU#22 SB-3	4'-5'	" "				X	X										
8	LSAU#22 SB-3	9'-16'	" "				X	X										
9	LSAU#22 SB-3	14'-15'	" "				X	X										
10	LSAU#22 SB-3	19'-20'	" "				X	X										
Sampler(s) Please Print & Sign			Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:									
<input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other 2 WK Days <input type="checkbox"/> 24 Hour																		
Relinquished by:	Date:	Time:	Received by:	Notes:		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)										
Relinquished by:	Date:	Time:	Received by (Laboratory):	Notes:				<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Check List									
Relinquished by:	Date:	Time:	Received by (Laboratory):	Notes:				<input type="checkbox"/> Level III Std QC/RAW Data	<input type="checkbox"/> TRRP Level IV									
Relinquished by:	Date:	Time:	Received by (Laboratory):	Notes:				<input type="checkbox"/> Level IV SW846/CLP										
Relinquished by:	Date:	Time:	Received by (Laboratory):	Notes:				<input type="checkbox"/> Other / EDD										
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																		

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COC ID: **33512**

ALS Environmental
 3352 128th Ave.
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 Tel: +1 616 399 6070
 Fax: +1 616 399 6185

Customer Information		Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	Livingston San Andes #22			A	Anions (300) Cl										
Work Order		Project Number	073815			B	Moisture										
Company Name	Conestoga-Rovers & Associates	Bill To Company	Conestoga-Rovers & Associates			C											
Send Report To	James Ornelas	Invoice Attn	James Ornelas			D											
Address	3320 Rothway Ste. 100	Address	6320 Rothway, Suite 100			E											
						F											
City/State/Zip	Houston, TX 77040	City/State/Zip	Houston, TX 77040			G											
Phone	(713) 734-3090	Phone	(713) 734-3090			H											
Fax	(713) 264-6138	Fax	(713) 734-3391			I											
e-Mail Address		e-Mail Address				J											
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	LSAU #22 SB-3 24'-25'	5/26/11	1150						HOLD								X
2	LSAU #22 SB-3 29'-30'	11 "	1200						HOLD								X
3	LSAU #22 SB-3 34'-35'	11 "	1202						HOLD								X
4	LSAU #22 SB-3 39'-40'	" "	1204						HOLD								X
5	LSAU #22 SB-4 4'-5'	" "	1230				X	X									
6	LSAU #22 SB-4 9'-10'	" "	1232				X	X									
7	LSAU #22 SB-4 14'-15'	" "	1234				X	X									
8	LSAU #22 SB-4 19'-20'	" "	1236				X	X									
9	LSAU #22 SB-4 24'-25'	" "	1238						HOLD								X
10	LSAU #22 SB-4 29'-30'	" "	1240						HOLD								X
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:									
				<input type="checkbox"/> Std. 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> Other _____				<input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour									
Relinquished by:	Date: 5/31/11	Time: 1600	Received by:		Notes: 5 Day TAT.												
Relinquished by:	Date:	Time:	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)										
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):				<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check List <input type="checkbox"/> Level III Std QC/RAW Data <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD										
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																	

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COC ID: 33511

ALS Environmental
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 Holland, MI 49424-9263
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 Fax: +1 616 399 6185

Customer Information		Project Information		Parameter/Method Request for Analysis															
Purchase Order		Project Name	Lovington Sar Andes #22	A	Anions (370) Cl														
Work Order		Project Number	073815	B	Moisture														
Company Name	Conestoga-Rovers & Associates	Bill To Company	Conestoga-Rovers & Associates	C															
Send Report To	James Ornelas	Invoice Attn	James Ornelas	D															
Address	6320 Rothway Ste. 100	Address	6320 Rothway, Suite 100	E															
				F															
City/State/Zip	Houston, TX 77040	City/State/Zip	Houston, TX 77040	G															
Phone	(713) 734-3090	Phone	(713) 734-3090	H															
Fax	(713) 264-6138	Fax	(713) 734-3391	I															
e-Mail Address		e-Mail Address		J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	LSAU# 22 SB-4 34'-35'	5/26/11	1242					HOLD										X	
2	LSAU# 22 SB-4 39'-40'	}	1244					HOLD										X	
3	LSAU# 22 SB-5 4'-5'		1305					X	X										
4	LSAU# 22 SB-5 9'-10'		1307					X	X										
5	LSAU# 22 SB-5 14'-15'		1309					X	X										
6	LSAU# 22 SB-5 19'-20'		1311					X	X										
7	LSAU# 22 SB-5 24'-25'		1313						HOLD										X
8	LSAU# 22 SB-5 29'-30'		1315						HOLD										X
9	LSAU# 22 SB-5 34'-35'		1317						HOLD										X
10	LSAU# SB-5 39'-40'		1319						HOLD										X
Sampler(s) Please Print & Sign			Shipment Method		Required Turnaround Time: (Check Box)				Other				Results Due Date:						
				<input type="checkbox"/> Std 10 WK Days <input checked="" type="checkbox"/> 5 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 24 Hour															
Relinquished by:	Date: 5/21/11	Time: 1600	Received by:		Notes: 5 Day TAT.		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)								
Relinquished by:	Date:	Time:	Received by (Laboratory):								<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> TRRP Check/Us:								
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):								<input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> TRRP Level IV								
												<input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other / EDD							
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																			

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Sample Receipt Checklist

Client Name: CRA-MID

Date/Time Received: 01-Jun-11 09:00

Work Order: 1106008

Received by: RDH

Checklist completed by Salvador A. Yanes 01-Jun-11
eSignature Date

Reviewed by: _____ Date
eSignature Date

Matrices: Soil
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Temperature(s)/Thermometer(s): 2.6c, 3.1c 002
- Cooler(s)/Kit(s): _____
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A
- pH adjusted by: _____
- Login Notes:



Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
Contacted By: _____ Regarding: _____

Comments: _____

CorrectiveAction: _____