

October 5, 2006

Mr. Larry Johnson
Environmental Engineer
New Mexico Oil Conservation Division – District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: **RP1-1043 Investigation Report, XTO Energy, Inc., Eunice Monument South
~~Unit Well #187~~, Unit Letter D (NW/4. NW/4), Section 5, Township 21 South,
Range 36 East, Lea County, New Mexico**

Dear Mr. Johnson:

Please find enclosed the above-referenced report, which is submitted to the State of New Mexico Oil Conservation Division ("OCD") on behalf of XTO Energy, Inc ("XTO") by Larson and Associates, Inc. ("LA"), its consultant, for a produced water spill that occurred at the Eunice Monument South Unit Well #187. Please contact Mr. Dudley McMinn with XTO at (432) 682-8873 or email Dudley_Mcminn@xtoenergy.com if you have questions. I may be reached with questions at (432) 687-0901 or email mark@laenvironmental.com.

Sincerely,

Larson and Associates, Inc.



Mark J. Larson, P.G., C.P.G., C. G. W. P.
Sr. Project Manager/President

Encl.

cc: Dudley McMinn

October 4, 2006

VIA CERTIFIED MAIL

Mr. Larry Johnson
Environmental Engineer
State of New Mexico
Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

Re: 1RP-1043, XTO Energy, Inc., EMSU Well #187 Produced Water Spill Investigation Report, Unit Letter D (NW/4, NW/4), Section 5, Township 21 South, Range 36 East, Lea County, New Mexico

Dear Mr. Johnson:

This letter is submitted to the State of New Mexico Oil Conservation Division ("OCD") on behalf of XTO Energy, Inc. ("XTO") by Larson and Associates, Inc. ("LA"), its agent, to present the results of an investigation of a produced water spill at the Eunice Monument South Unit ("EMSU") injection well #187 ("Site"). The latitude and longitude for the Site is North 32° 31' 14.1" and West 103° 17' 37.8", respectively. Figure 1 presents a topographic and depth-to-groundwater map. Contact information for XTO is as follows:

Mr. Dudley M^cMinn
Environmental, Health & Safety Representative
XTO Energy, Inc.
200 North Loraine Street, Suite 800
Midland, Texas 79701
Office: (432) 682-8873
Fax: (432) 687-0862
Cell: (432) 557-7976
Email: Dudley_McMinn@xtoenergy.com

Chronology

The spill occurred on August 2, 2004, while ChevronTexaco North America Exploration and Production Company ("ChevronTexaco") operated the property. ChevronTexaco reported the spill to the OCD on August 3, 2004, and submitted form C-141. Form C-141 reported the release involved approximately 180 barrels ("bbl") of produced water and 160 bbl was recovered. ChevronTexaco personnel scrapped an unknown volume of soil from the spill, which was disposed at Sundance, Inc., located east of Eunice, New Mexico. XTO assumed operations of the Site on August 16, 2004.

On November 9, 2004, December 22, 2004, April 3, 2006 and July 6, 2006, LA personnel collected soil samples from borings and notification was provided to the OCD prior to each event. The samples were collected using hand auger, direct push and air rotary methods, placed in 4-ounce glass jars, labeled, chilled in an ice chest and delivered to Environmental Lab of Texas, Inc., located in Odessa, Texas. Duplicate sample were collected for headspace analysis and recorded on boring logs. All headspace readings were below 100 parts per million ("ppm"), therefore, the laboratory analyzed select samples for total petroleum hydrocarbons ("TPH") and all samples were analyzed for chloride using methods SW-846-8015 and 300, respectively. Figure 2 presents the boring locations. Table 1 presents a summary of the laboratory analysis. Appendix A presents the boring logs. Appendix B presents the laboratory reports. Appendix C presents photographs.

Conclusions

Ground water occurs at approximately 105 feet below ground surface ("bgs") and no wells or surface water is present within 1,000 horizontal feet of the Site. Figure 1 presents contours for depth-to-groundwater. Recommended remediation action levels ("RRAL") were calculated for the Site using the following OCD criteria:

Ranking Criteria	Result	Ranking Score
Depth-to-Groundwater	>100 feet	0
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
Total Score:		0

The following RRAL are assigned to the leak based on the total ranking score (0):

- **Benzene** **10 mg/kg**
- **BTEX** **50 mg/kg**
- **TPH** **5,000 mg/kg**

TPH was below 5,000 mg/Kg in all samples. The maximum vertical concentration of chloride decreased below 1000 milligrams per kilogram ("mg/Kg") at all locations, except from location HB-12. The deepest sample from boring HB-12 (40 to 41 feet), reported chloride at 1,110 mg/Kg. The highest chloride was reported in sample HB-12, 20 to 22 feet bgs (3,110 mg/Kg). This sample was analyzed using the synthetic precipitation leaching procedure ("SPLP") by EPA method SW-846-1312 to determine if the chloride would leach above the New Mexico Water Quality Control Commission ("WQCC") domestic water quality threshold of 250 milligrams per liter ("mg/L"). The chloride concentration from the SPLP method was 177 mg/L. XTO respectfully requests a closure letter from the OCD for this spill. Please contact Mr. Dudley McMinn with XTO at (432) 682-8873 or email Dudley_McMinn@xtoenergy.com if you have questions. I may be reached with questions at (432) 687-0901 or email mark@laenvironmental.com.

Mr. Larry Johnson
October 4, 2006
Page 3

Sincerely,
Larson and Associates, Inc.

A handwritten signature in black ink, appearing to be 'Mark J. Larson', enclosed within a large, loopy circular flourish.

Mark J. Larson, P.G., C.P.G., C.G.W.P.
Senior Project Manager/President

Encl

cc: Dudley McMinn/XTO

Tables

Table 1
Summary of Laboratory Analyses of Soil Samples
XTO Energy, Inc., Eunice Monument South Unit (EMSU) Well #187
Unit Letter D (NW/4, NW/4), Section 5, Township 21 South, Range 36 East
Lea County, New Mexico

Page 1 of 3

Sample Location	Sample Date	Sample Depth (BGS)	GRO C6 - C12 (mg/Kg)	DRO C12 - C35 (mg/Kg)	DRO C12 - C28 (mg/Kg)	DRO C28 - C35 (mg/Kg)	TPH C6 - C35 (mg/Kg)	Chloride (mg/Kg)	SPLP Chloride (mg/L)
HB-1	11/09/2004	0 - 1	9.7	66	--	--	75.7	638	--
BBH-1	11/09/2004	1 - 2	<10	<10	--	--	<20	808	--
HB-1A	11/09/2004	2 - 3	<10	<10	--	--	<20	399	--
	12/22/2004	4 - 6	---	---	--	---	---	968	--
	12/22/2004	6 - 8	---	---	--	---	---	1320	--
	04/03/2006	10 - 12	---	---	--	---	---	936	--
	04/03/2006	15 - 17	---	---	--	---	---	1400	--
	04/03/2006	20 - 22	---	---	--	---	---	441	--
HB-2	11/09/2004	0 - 1	<10	107	--	--	107	2800	--
HB-2A	11/09/2004	1 - 2	<10	68	--	--	68	1300	--
	11/09/2004	2 - 3	<10	<10	--	--	<20	1130	--
	04/04/2006	5 - 7	---	---	--	---	---	3470	--
	04/04/2006	10 - 12	---	---	--	---	---	2360	--
	04/04/2006	15 - 17	---	---	--	---	---	681	--
HB-3	11/09/2004	0 - 1	<10	<10	--	--	<20	<20	--
	11/09/2004	1 - 2	<10	<10	--	--	<20	<20	--
	11/09/2004	2 - 3	<10	<10	--	--	<20	<20	--
HB-4	11/09/2004	0 - 1	<10	<10	--	--	<20	97.7	--
BBH-4	11/09/2004	1 - 2	<10	<10	--	--	<20	638	--
HB-4A	11/09/2004	2 - 3	<10	<10	--	--	<20	915	--
	12/22/2004	4 - 6	---	--	--	---	---	1280	--
	04/03/2006	10 - 12	---	--	--	---	---	553	--
HB-5	11/09/2004	0 - 1	<10	<10	--	--	<20	<20	--
	11/09/2004	1 - 2	<10	<10	--	--	<20	31.9	--
	11/09/2004	2 - 3	<10	<10	--	--	<20	<20	--
HB-6	11/09/2004	0 - 1	<10	286	--	--	286	362	--
BBH-6	11/09/2004	1 - 2	<10	191	--	--	191	319	--
HB-6A	11/09/2004	2 - 3	<10	<10	--	--	<20	585	--
	12/22/2004	4 - 6	---	--	--	---	---	1420	--
	12/22/2004	6 - 8	---	--	--	---	---	893	--
	04/03/2006	10 - 12	---	--	--	---	---	223	--
HB-7	11/09/2004	0-1	<10	<10	--	--	<20	<20	--
	11/09/2004	1-2	<10	142	--	--	142	<20	--
	11/09/2004	2-3	<10	<10	--	--	<20	<20	--
HB-8	11/09/2004	0 - 1	<10	<10	--	--	<20	<20	--
HB-8A	11/09/2004	1 - 2	<10	<10	--	--	<20	42.5	--
	11/09/2004	2 - 3	<10	<10	--	--	<20	63.8	--
	04/03/2006	5 - 7	---	--	--	---	---	489	--
	07/06/2006	10 - 11	---	--	--	---	---	31.9	--
	07/06/2006	15 - 16	---	--	--	---	---	21.3	--
	07/06/2006	20 - 21	---	--	--	---	---	<20	--
	07/06/2006	25 - 26	---	--	--	---	---	---	--
BH-9	12/22/2004	0 - 2	---	--	---	---	---	63.8	--
HB-9A	12/22/2004	2 - 4	---	--	---	---	---	<20	--
	12/22/2004	4 - 6	---	--	---	---	---	21.3	--
	12/22/2004	6 - 8	---	--	---	---	---	170	--
	04/03/2006	10 - 12	---	--	---	---	---	872	--

Table 1
Summary of Laboratory Analyses of Soil Samples
XTO Energy, Inc., Eunice Monument South Uunit (EMSU) Well #187
Unit Letter D (NW/4, NW/4), Section 5, Township 21 South, Range 36 East
Lea County, New Mexico

Page 2 of 3

Sample Location	Sample Date	Sample Depth (BGS)	GRO C6 - C12 (mg/Kg)	DRO C12 - C35 (mg/Kg)	DRO C12 - C28 (mg/Kg)	DRO C28 - C35 (mg/Kg)	TPH C6 - C35 (mg/Kg)	Chloride (mg/Kg)	SPLP Chloride (mg/L)
	04/03/2006	15 - 16	---	--	---	---	---	766	--
	07/06/2006	20 - 21	---	--	---	---	---	1,470	--
	07/06/2006	25 - 26	---	--	---	---	---	319	--
	07/06/2006	30 - 31	---	--	---	---	---	340	--
BH-10 HB-10A	12/22/2004	0 - 2	---	--	---	---	---	<20	--
	12/22/2004	2 - 4	---	--	---	---	---	<20	--
	12/22/2004	4 - 6	---	--	---	---	---	<20	--
	12/22/2004	6 - 8	---	--	---	---	---	31.9	--
	04/03/2006	10 - 12	---	--	---	---	---	1070	--
	04/03/2006	15 - 17	---	--	---	---	---	1740	--
	04/03/2006	20 - 22	---	--	---	---	---	959	--
BH-11 HB-11A	12/22/2004	0 - 2	---	--	---	---	---	<20	--
	12/22/2004	2 - 4	---	--	---	---	---	<20	--
	12/22/2004	4 - 6	---	--	---	---	---	<20	--
	12/22/2004	6 - 8	---	--	---	---	---	<20	--
	04/03/2006	10 - 12	---	--	---	---	---	117	--
HB-12	04/04/2006	0 - 2	<10	--	<10	<10	<30	<20	--
	04/04/2006	5 - 7	---	--	---	---	---	510	--
	04/04/2006	10 - 12	---	--	---	---	---	2000	--
	04/04/2006	20 - 22	---	--	---	---	---	3110	177
	07/06/2006	25 - 26	<10	--	<10	<10	<30	2,340	--
	07/06/2006	30 - 31	---	--	---	---	---	510	--
	07/06/2006	35 - 36	---	--	---	---	---	1,020	--
	07/06/2006	40 - 41	---	--	---	---	---	1,110	--
HB-13	04/03/2006	0 - 2	---	--	---	---	---	<20	--
	04/03/2006	5 - 7	---	--	---	---	---	404	--
	04/03/2006	10 - 12	---	--	---	---	---	170	--
HB-14	07/06/2006	0 - 2	---	--	---	---	---	<20	--
	07/06/2006	5 - 6	---	--	---	---	---	978	--
	07/06/2006	10 - 11	---	--	---	---	---	681	--
	07/06/2006	15 - 16	<10	--	<10	<10	<30	893	--
	07/06/2006	20 - 22	---	--	---	---	---	1,700	--
	07/06/2006	25 - 26	---	--	---	---	---	638	--
	07/06/2006	30 - 31	---	--	---	---	---	553	--
BH-14	07/06/2006	35 - 36	---	--	---	---	---	298	--
	07/06/2006	40 - 41	---	--	---	---	---	--	--
HB-15	07/06/2006	0 - 2	---	--	---	---	---	31.9	--
	07/06/2006	5 - 6	<10	--	<10	<10	<30	74.4	--
	07/06/2006	10 - 11	---	--	---	---	---	<20	--
	07/06/2006	15 - 16	---	--	---	---	---	<20	--
	07/06/2006	20 - 21	---	--	---	---	---	<20	--
	07/06/2006	25 - 26	---	--	---	---	---	---	--
Background	11/09/2004	0 - 1	<10.0	--	---	<10.0	<20.0	<20	--
	07/06/2006	0 - 2	---	--	---	---	---	<20	--
	11/09/2004	1 - 2	<10.0	--	---	<10.0	<20.0	<20	--
	11/09/2004	2 - 3	<10.0	--	---	<10.0	<20.0	<20	--
	07/06/2006	5 - 6	---	--	---	---	---	31.9	--

Table 1
 Summary of Laboratory Analyses of Soil Samples
 XTO Energy, Inc., Eunice Monument South Uunit (EMSU) Well #187
 Unit Letter D (NW/4, NW/4), Section 5, Township 21 South, Range 36 East
 Lea County, New Mexico

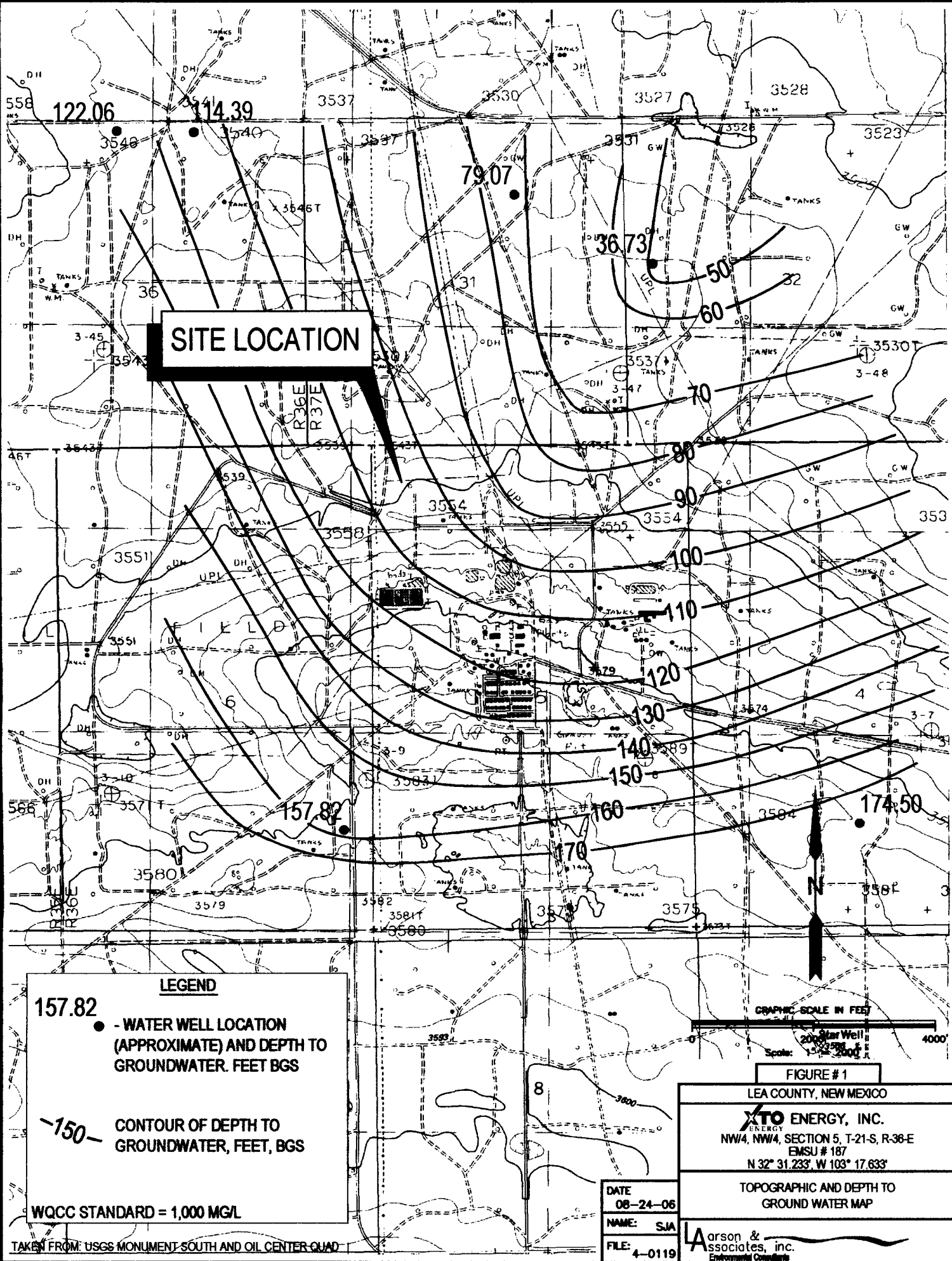
Page 3 of 3

Sample Location	Sample Date	Sample Depth (BGS)	GRO C6 - C12 (mg/Kg)	DRO C12 - C35 (mg/Kg)	DRO C12 - C28 (mg/Kg)	DRO C28 - C35 (mg/Kg)	TPH C6 - C35 (mg/Kg)	Chloride (mg/Kg)	SPLP Chloride (mg/L)
Background	07/06/2006	10 - 11	---	--	---	---	---	<20	--
	07/06/2006	15 - 16	---	--	---	---	---	85.1	--
	07/06/2006	20 - 21	---	--	---	---	---	42.5	--
	07/06/2006	25 - 26	---	--	---	---	---	21.3	--
	07/06/2006	30 - 31	---	--	---	---	---	<20	--
	07/06/2006	35 - 36	---	--	---	---	---	<20	--
	07/06/2006	40 - 41	---	--	---	---	---	---	--

Notes: Analysis performed by Environmental Lab of Texas I, Ltd., Odessa, Texas

1. BGS: Depth in feet below ground surface
2. TPH: Total petroleum hydrocarbons (Sum of C6 to C35)
3. mg/Kg: Milligrams per kilogram
4. mg/L: Milligrams per liter
5. <: Below method detection limit
6. --: No data available

Figures



SITE LOCATION

LEGEND

157.82
● - WATER WELL LOCATION
(APPROXIMATE) AND DEPTH TO
GROUNDWATER. FEET BGS

-150- CONTOUR OF DEPTH TO
GROUNDWATER, FEET, BGS

WQCC STANDARD = 1,000 MG/L

TAKEN FROM: USGS MONUMENT SOUTH AND OIL CENTER QUAD

GRAPHIC SCALE IN FEET

Scale: 1" = 200'

FIGURE #1

LEA COUNTY, NEW MEXICO

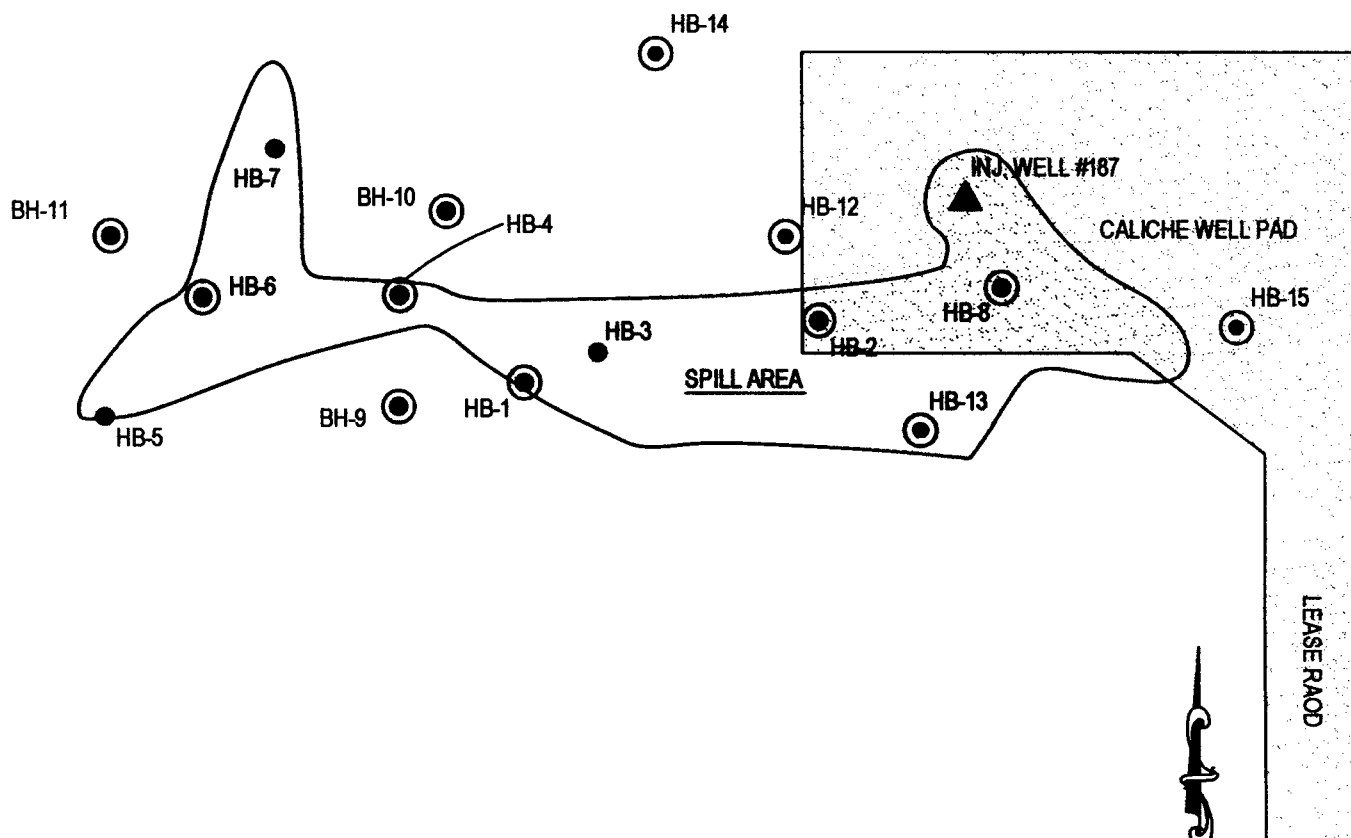
XTO ENERGY, INC.
NW1/4, NW1/4, SECTION 5, T-21-S, R-36-E
EMS# 187
N 32° 31.23' W 103° 17.63'

TOPOGRAPHIC AND DEPTH TO
GROUND WATER MAP




DATE
08-24-06
NAME: SJA
FILE: 4-0119

LAarson & Associates, inc.
Engineering Consultants

BACKGROUND 



LEGEND

- INJ. WELL #187  - INJECTION WELL
- HB-3  - HAND AUGER BORING LOCATION (11/09/04)
- BH-9  - MACHINE-DRILLED BORING LOCATION (12/22/04, 4/3-6/06 AND 7/6/06)
- - SPILL BOUNDARY

GRAPHIC SCALE IN FEET

0 40' 80'

Scale: 1" = 40'

FIGURE #2

LEA COUNTY, NEW MEXICO

XTO ENERGY, INC.
NW/4, NW/4, SECTION 5, T-21-S, R-36-E
EMSU # 187
N 32° 31.233', W 103° 17.633'

SITE DRAWING

DATE
08-23-06
NAME: SJA
FILE: 4-0119

Larson &
associates, inc.
Environmental Consultants

Appendix A

Boring Logs

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: Background

Page: 1 of 1

Geologist: C. Crain/M. Larson

SUBSURFACE PROFILE			SAMPLE			PID ppm 1 3 5 7 9	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 5 YR 4/6, Yellowish red , very fine grained quartz sand, very poorly sorted, dry	1			0.2	Depth: 0.0' - 2.00' BGS (11/9/04) Chloride: <20 mg/kg
5		Caliche 7.5 YR 8/2 to 7/3, Pinkish white to pink, sandy to indurated, very fine grained quartz sand, hard	2			0.6	Depth: 5.00' - 6.00' BGS (7/6/06) Chloride: 31.9 mg/kg
10			3			0.4	Depth: 10.00' - 11.00' BGS (7/6/06) Chloride: <20 mg/kg
15			4			3.9	Depth: 15.00' - 16.00' BGS (7/6/06) Chloride: 85.1 mg/kg
20		Silty Sand- Sandstone 7.5 YR 8/2 to 7/3, Pinkish white to pink, very fine grained quartz sand, friable to loose, dry	5			0.6	Depth: 20.00' - 21.00' BGS (7/6/06) Chloride: 42.5 mg/kg
25			6			0.3	Depth: 25.00' - 26.00' BGS (7/6/06) Chloride: 21.3 mg/kg
30			7			0.4	Depth: 30.00' - 31.00' BGS (7/6/06) Chloride: <20 mg/kg
35			8			0.4	Depth: 35.00' - 36.00' BGS (7/6/06) Chloride: <20 mg/kg
40		TD: 40.00'	9			0.4	
45							

Drill Method: Air Rotary

Drill Date: 7/6/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: MJL

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

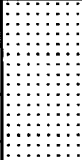
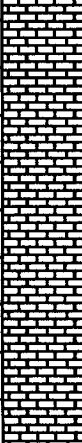

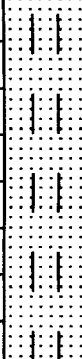



Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-1A

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: 75.7 mg/kg Chloride: 638 mg/kg Depth: 1.00' - 2.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 808 mg/kg Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 399 mg/kg Depth: 4.00' - 6.00' BGS (12/22/04) Chloride: 968 mg/kg Depth: 6.00' - 8.00' BGS (12/22/04) Chloride: 1320 mg/kg Depth: 10.00' - 12.00' BGS (12/22/04) Chloride: 936 mg/kg
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					
5							
10			1				
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp					0.8 0.0 0.5
15			2				
20			3				
		Sand 5 YR 5/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

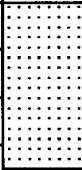
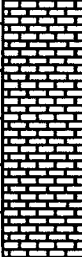



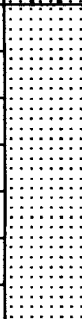


Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-2A

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: 107 mg/kg Chloride: 2800 mg/kg Depth: 1.00' - 2.00' BGS (11/9/04) TPH: 68 mg/kg Chloride: 1300 mg/kg Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 1130 mg/kg Depth: 5.00' - 7.00' BGS (4/4/04) Chloride: 3470 mg/kg
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					
		Caliche 10 YR 8/2, Very pale brown, indurated, dry	1				
5							
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	2			0.3	
10							
		Sand 5 YR 6/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp	3			0.3	
15							
			4			0.3	
20							
		TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/4/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

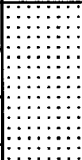
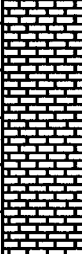
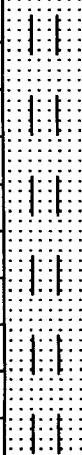


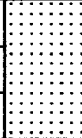

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-4A

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 97.7 mg/kg Depth: 1.00' - 2.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 638 mg/kg Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 915 mg/kg Depth: 4.00' - 6.00' BGS (12/22/04) Chloride: 1280 mg/kg
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					
5							
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	1			0.3	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 553 mg/kg
10							
15			2			0.4	
		Sand 5 YR 6/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp	3			0.3	
20							
		TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

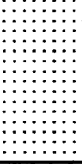




Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-6A

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: 286 mg/kg Chloride: 362 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					Depth: 1.00' - 2.00' BGS (11/9/04) TPH: 191 mg/kg Chloride: 319 mg/kg
5							Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 585 mg/kg
10			1			0.0	Depth: 4.00' - 6.00' BGS (12/22/04) Chloride: 1420 mg/kg
15			2			0.0	Depth: 6.00' - 8.00' BGS (12/22/04) Chloride: 893 mg/kg
20			3			0.0	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 223 mg/kg
		TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-8A

Page: 1 of 1

Geologist: C. Crain/M. Larson

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: <20 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry	1	II		0.7	Depth: 1.00' - 2.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 42.5 mg/kg
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	2	II		0.2	Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 63.8 mg/kg
			3	II		0.0	Depth: 5.00' - 7.00' BGS (4/3/06) Chloride: 489 mg/kg
			4	II		0.0	Depth: 10.00' - 11.00' BGS (7/6/06) Chloride: 31.9 mg/kg
			5	II		0.7	Depth: 15.00' - 16.00' BGS (7/6/06) Chloride: <20 mg/kg
		TD: 26.00'					
30							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-9A

Page: 1 of 1

Geologist: C. Crain/M. Larson

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 2.00' BGS (12/22/04) Chloride: 63.8 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					Depth: 2.00' - 4.00' BGS (12/22/04) Chloride: <20 mg/kg
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp					Depth: 4.00' - 6.00' BGS (12/22/04) Chloride: 21.3 mg/kg
10			1			0.7	Depth: 6.00' - 8.00' BGS (12/22/04) Chloride: 170 mg/kg
15			2			0.1	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 872 mg/kg
20			3			0.7	Depth: 15.00' - 17.00' BGS (4/3/06) Chloride: 766 mg/kg
25			4			0.1	Depth: 20.00' - 21.00' BGS (4/3/06) Chloride: 1,470 mg/kg
30			5			0.1	Depth: 25.00' - 26.00' BGS (7/6/06) Chloride: 319 mg/kg
		TD: 31.00'					Depth: 30.00' - 31.00' BGS (7/6/06) Chloride: 340 mg/kg
35							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-10A

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 2.00' BGS (12/22/04) Chloride: <20 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					Depth: 2.00' - 4.00' BGS (12/22/04) Chloride: <20 mg/kg
							Depth: 4.00' - 6.00' BGS (12/22/04) Chloride: <20 mg/kg
							Depth: 6.00' - 8.00' BGS (12/22/04) Chloride: 31.9 mg/kg
10			1			0.7	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 1,070 mg/kg
15		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	2			0.4	Depth: 15.00' - 17.00' BGS (4/3/06) Chloride: 1,740 mg/kg
20		Sand 5 YR 5/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp	3			0.3	Depth: 20.00' - 22.00' BGS (4/3/06) Chloride: 959 mg/kg
		TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/4/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

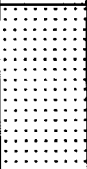
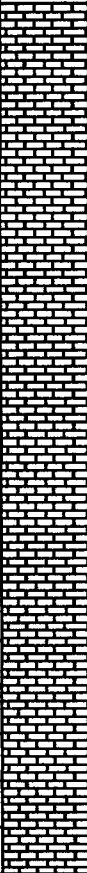



Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-11A

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 2.00' BGS (12/22/04) Chloride: <20 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					Depth: 2.00' - 4.00' BGS (12/22/04) Chloride: <20 mg/kg
							Depth: 4.00' - 6.00' BGS (12/22/04) Chloride: <20 mg/kg
							Depth: 6.00' - 8.00' BGS (12/22/04) Chloride: <20 mg/kg
10			1			0.0	
							Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 117 mg/kg
15			2			0.0	
20			3			0.0	
		TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-12

Page: 1 of 1

Geologist: C. Crain/M. Larson

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted	1			0.0	Depth: 0.0' - 2.00' BGS (4/4/06) Chloride: <20 mg/kg
5		Caliche 10 YR 8/2, Very pale brown, indurated, dry	2			0.0	Depth: 5.00' - 7.00' BGS (4/4/06) Chloride: 510 mg/kg
10			3			0.0	Depth: 10.00' - 12.00' BGS (4/4/06) Chloride: 2,200 mg/kg
15		Silty Sand 10 YR 7/6, Very fine grained, poorly sorted, damp	4			0.0	Depth: 15.00' - 17.00' BGS (4/4/06) Chloride: 2980 mg/kg
20		7 YR 7/3, Pink below 25.0', damp, moderately to poorly cemented sandstone from 25.0' to 35.0', loose below 35.0'	5			0.0	Depth: 20.00' - 22.00' BGS (4/3/06) Chloride: 3,110 mg/kg SPLP Chloride: 177 mg/l
25			6			0.3	Depth: 25.00' - 26.00' BGS (4/3/06) Chloride: 2340 mg/kg
30			7			0.1	Depth: 30.00' - 31.00' BGS (7/6/06) Chloride: 510 mg/kg
35			8			0.1	Depth: 35.00' - 36.00' BGS (7/6/06) Chloride: 1,020 mg/kg
40		TD: 40.00'	9			0.1	Depth: 40.00' - 41.00' BGS (7/6/06) Chloride: 1,110 mg/kg
45							

Drill Method: Air Rotary

Drill Date: 4/4/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: ML

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-13

Page: 1 of 1

Geologist: C. Crain

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted	1			0.6	Depth: 0.0' - 2.00' BGS (4/3/06) Chloride: <20 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry	2			1.0	Depth: 5.00' - 7.00' BGS (4/3/06) Chloride: 404 mg/kg
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	3			0.0	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 170 mg/kg
			4			0.0	
		Sand 5 YR 5/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp	5			0.0	
		TD: 22.00'					
25							

Drill Method: Air Rotary

Drill Date: 4/3/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: CC

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-14

Page: 1 of 1

Geologist: M. Larson

SUBSURFACE PROFILE			SAMPLE			PID ppm 0.5 1 1.5	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
0		Silty Sand 5 YR 4/6, Yellow red , very fine grained quartz sand, poorly sorted, slightly compacted, dry	1			0.1	Depth: 0.0' - 2.00' BGS (7/6/06) Chloride: <20 mg/kg
5		Caliche 7.5 YR 8/2 to 7/3, Pinkish white to pink, sandy to indurated, very fine grained quartz sand, hard	2			0.2	Depth: 5.00' - 6.00' BGS (7/6/06) Chloride: 978 mg/kg
10			3			0.2	Depth: 10.00' - 12.00' BGS (7/6/06) Chloride: 681 mg/kg
15			4			1.5	Depth: 15.00' - 17.00' BGS (7/6/06) Chloride: 893 mg/kg
20		Silty Sand- Sandstone 7.5 YR 8/2 to 8/3, Pinkish white to pink, very fine grained quartz sand, soft to friable, dry	5			0.4	Depth: 20.00' - 22.00' BGS (7/6/06) Chloride: 1,700 mg/kg
25			6			0.3	Depth: 25.00' - 26.00' BGS (7/6/06) Chloride: 638 mg/kg
30			7			0.2	Depth: 30.00' - 31.00' BGS (7/6/06) Chloride: 553 mg/kg
35			8			0.2	Depth: 35.00' - 36.00' BGS (7/6/06) Chloride: 298 mg/kg
40		TD: 40.00'	9			0.6	
45							

Drill Method: Air Rotary

Drill Date: 7/6/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

Elevation: N/A

Checked by: MJL

Drilled by: Scarborough

Client: XTO

Project: EMSU # 187

Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-15

Page: 1 of 1

Geologist: M. Larson

SUBSURFACE PROFILE			SAMPLE			PID ppm 1 3 5 7 9	Notes
Depth	Symbol	Description	Number	Type	Recovery		
0		Ground Surface					
		Caliche 7.5 YR 8/1, White, sandy to indurated, well pad	1			0.1	Depth: 0.0' - 2.00' BGS (7/6/06) Chloride: 31.9 mg/kg
		Silty Sand 5 YR 4/6, Yellowish red, very fine grained quartz sand, very poorly sorted, dry					
5		Caliche 7.5 YR 8/2 to 7/3, Pinkish white to pink, sandy to indurated, very fine grained quartz sand, hard, dry	2			6.5	Depth: 5.00' - 6.00' BGS (7/6/06) Chloride: 74.4 mg/kg
10			3			0.3	Depth: 10.00' - 12.00' BGS (7/6/06) Chloride: <20 mg/kg
15			4			0.2	Depth: 15.00' - 16.00' BGS (4/4/06) Chloride: <20 mg/kg
20		Silty Sand- Sandstone 7.5 YR 8/2 to 8/3, Pinkish white to pink, very fine grained quartz sand, soft to friable, dry	5			0.2	Depth: 20.00' - 21.00' BGS (4/3/06) Chloride: <20 mg/kg
25			6			0.2	
		TD: 26.00'					
30							

Drill Method: Air Rotary

Drill Date: 7/6/06

Hole Size: 2"

Larson and Associates, Inc
507 N. Marienfeld, Suite 202
Midland, Texas 79701
(432) 687-0901

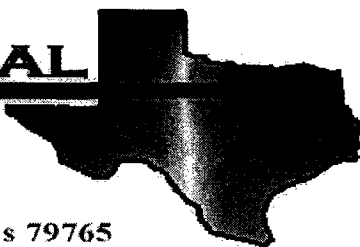
Elevation: N/A

Checked by: MJL

Drilled by: Scarborough

Appendix B
Laboratory Reports

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: XTO/ Well #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 4K10004

Report Date: 11/12/04

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Larson + Associates

Date/Time: 11-10-04 @ 0945

Order #: 4K 10004

Initials: Jmm

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	15	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
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?	<input checked="" type="checkbox"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:

CLIENT NAME:	SITE MANAGER:
--------------	---------------

LAarson &
ssociates, Inc. Fax: 432-687-0456
Environmental Consultants
432-687-0901

507 N. Marienfeld, Ste. 202 • Midland, TX 79701

LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
------------------------------------	---

80-	
20-	
JK 10004-01	

50-	no
50-	no

		7
		8
		9

11-	
10-	
9-	

	-13	
	-14	

	-17-	
	-97-	
	-5-	

RECEIVED BY: (Signature) _____ DATE: _____
 _____ TIME: _____

EXAMPLE SHIPPED BY: (Circle)

EX	BUS	AIRBILL #:
AND DELIVERED	UPS	OTHER:

WHITE - RECEIVING LAB
 BROWN - RECEIVING LAB (TO BE RETURNED TO
 LA AFTER RECEIPT)

K - PROJECT MANAGER LD - QA/QC COORDINATOR	ADI C TYPE.
---	-------------

P.1

Chlorophyll

[illegible][illegible][illegible]

Signature) _____
DATE: 11/9/87
TIME: 1715

e)	DATE: _____
	TIME: _____
	TIME REQUIRED: _____

	Y: (Signature)
--	----------------

DATE: 09-04 TIME: 1715

My Rain

PROJECT NO.: 4-0119	PROJECT NAME: Candy Grove	CONTAINERS # 27
------------------------	------------------------------	--------------------

PAGE 1 OF 3 LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER
------	------	-------	------	-------	-----------------------	--------

9/10/11	✓	HB	0.1'
10/1	✓		1-2'
10/3	✓		2-3'

10249	HB-2	0-1
10252		1-2
1121		2-3

1111	HB-3	0.1
1117		1.2
1118		1.3

1137	148.4	0.1
1410		1.2

2.1	48-5	2521	2521
1.0		2521	2521
2.0		2521	2521

1318				2-2
1321			118-6	20/-
1324				102

1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585</
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RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)
DATE: _____	
TIME: _____	
COMMENTS	

RECEIVING LABORATORY: Env Lab of TX RECEIVED _____

DATE: 8/1/80
ADDRESS: 12000 W. 2nd E
CITY: Ogden STATE: TX ZIP: 79705
CONTACT: _____ PHONE: 503-1800
SAMPLE CONDITION WHEN RECEIVED: _____

4oz glass on ice	1.5°C
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CHAIN—OF—CUSTODY RECORD

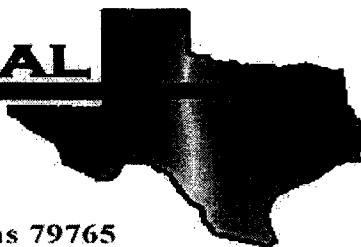
LA arson & ssociates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202 • Midland, TX 79701
Fax: 432-687-0456
432-687-0901

LAB. I.D. NUMBER (LAB USE ONLY)
REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

PARAMETERS/METHOD NUMBER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	12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ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: XTO/ Well #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 4L23002

Report Date: 12/28/04

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/28/04 12:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BBH-1 4-6'	4L23002-01	Soil	12/22/04 14:49	12/23/04 08:15
BBH-1 6-8'	4L23002-02	Soil	12/22/04 14:49	12/23/04 08:15
BBH-6 4-6'	4L23002-03	Soil	12/22/04 15:13	12/23/04 08:15
BBH-6 6-8'	4L23002-04	Soil	12/22/04 15:13	12/23/04 08:15
BBH-4 4-6'	4L23002-05	Soil	12/22/04 15:27	12/23/04 08:15
BH-9 0-2'	4L23002-06	Soil	12/22/04 15:40	12/23/04 08:15
BH-9 2-4'	4L23002-07	Soil	12/22/04 15:40	12/23/04 08:15
BH-9 4-6'	4L23002-08	Soil	12/22/04 15:51	12/23/04 08:15
BH-9 6-8'	4L23002-09	Soil	12/22/04 15:51	12/23/04 08:15
BH-10 0-2'	4L23002-10	Soil	12/22/04 16:07	12/23/04 08:15
BH-10 2-4'	4L23002-11	Soil	12/22/04 16:07	12/23/04 08:15
BH-10 4-6'	4L23002-12	Soil	12/22/04 16:18	12/23/04 08:15
BH-10 6-8'	4L23002-13	Soil	12/22/04 16:18	12/23/04 08:15
BH-11 0-2'	4L23002-14	Soil	12/22/04 16:30	12/23/04 08:15
BH-11 2-4'	4L23002-15	Soil	12/22/04 16:30	12/23/04 08:15
BH-11 4-6'	4L23002-16	Soil	12/22/04 16:30	12/23/04 08:15
BH-11 6-8'	4L23002-17	Soil	12/22/04 16:30	12/23/04 08:15

Larson & Associates, Inc.
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Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/28/04 12:22

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BBH-1 4-6' (4L23002-01) Soil									
Chloride	968	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BBH-1 6-8' (4L23002-02) Soil									
Chloride	1320	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BBH-6 4-6' (4L23002-03) Soil									
Chloride	1420	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BBH-6 6-8' (4L23002-04) Soil									
Chloride	893	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BBH-4 4-6' (4L23002-05) Soil									
Chloride	1280	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-9 0-2' (4L23002-06) Soil									
Chloride	63.8	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-9 2-4' (4L23002-07) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-9 4-6' (4L23002-08) Soil									
Chloride	21.3	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-9 6-8' (4L23002-09) Soil									
Chloride	170	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-10 0-2' (4L23002-10) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/28/04 12:22

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-10 2-4' (4L23002-11) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-10 4-6' (4L23002-12) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-10 6-8' (4L23002-13) Soil									
Chloride	31.9	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-11 0-2' (4L23002-14) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-11 2-4' (4L23002-15) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-11 4-6' (4L23002-16) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	
BH-11 6-8' (4L23002-17) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EL42307	12/23/04	12/23/04	SW 846 9253	

Environmental Lab of Texas

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Page 3 of 5

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/28/04 16:28

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL42307 - Water Extraction										
Blank (EL42307-BLK1)				Prepared & Analyzed: 12/23/04						
Chloride	ND	20.0	mg/kg Wet							
Blank (EL42307-BLK2)				Prepared & Analyzed: 12/23/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EL42307-MS1)				Source: 4L22017-02 Prepared & Analyzed: 12/23/04						
Chloride	500	20.0	mg/kg Wet	500	74.4	85.1	80-120			
Matrix Spike (EL42307-MS2)				Source: 4L22017-21 Prepared & Analyzed: 12/23/04						
Chloride	436	20.0	mg/kg Wet	500	0.00	87.2	80-120			
Matrix Spike Dup (EL42307-MSD1)				Source: 4L22017-02 Prepared & Analyzed: 12/23/04						
Chloride	489	20.0	mg/kg Wet	500	74.4	82.9	80-120	2.22	20	
Matrix Spike Dup (EL42307-MSD2)				Source: 4L22017-21 Prepared & Analyzed: 12/23/04						
Chloride	447	20.0	mg/kg Wet	500	0.00	89.4	80-120	2.49	20	
Reference (EL42307-SRM1)				Prepared & Analyzed: 12/23/04						
Chloride	5000		mg/kg	5000		100	80-120			
Reference (EL42307-SRM2)				Prepared & Analyzed: 12/23/04						
Chloride	5000		mg/kg	5000		100	80-120			

Environmental Lab of Texas

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Page 4 of 5

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
12/28/04 12:22

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Celestine D. Keene Date: 12/28/04

Raland K. Tuttle, Lab Manager
Celestine D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Larson + Associates

Date/Time: 12-23-04 @ 0815

Order #: 4L 23002

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	-0.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	N/A
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present NA
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not present</u>
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	No labels - written on lid
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	No labels - written on lid
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not Applicable</u>

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Larson + Associates

Date/Time: 12-23-04 @ 0815

Order #: 4L 23002

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<u>Yes</u>	No	<u>-0.5</u> C
Shipping container/cooler in good condition?	<u>Yes</u>	No	<u>N/A</u>
Custody Seals intact on shipping container/cooler?	<u>Yes</u>	No	<u>Not present NA</u>
Custody Seals intact on sample bottles?	<u>Yes</u>	No	<u>(Not present)</u>
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	<u>Yes</u>	No	<u>No Labels - written on lid</u>
Container labels legible and intact?	<u>Yes</u>	No	<u>No Labels - written on lid</u>
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	<u>Not Applicable</u>

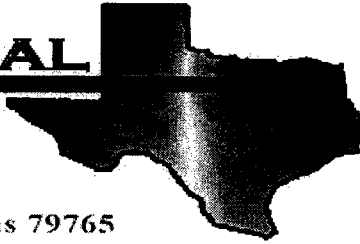
Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: XTO/ EMSU #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 6D19010

Report Date: 04/24/06

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456
Reported:
04/24/06 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HB-12 (15-17')	6D19010-01	Soil	04/04/06 10:15	04/05/06 12:20
HB-2A (10-12')	6D19010-02	Soil	04/04/06 10:38	04/05/06 12:20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/24/06 17:04

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-12 (15-17') (6D19010-01) Soil									
Chloride	2980	50.0	mg/kg	100	ED62110	04/21/06	04/21/06	EPA 300.0	
HB-2A (10-12') (6D19010-02) Soil									
Chloride	2360	50.0	mg/kg	100	ED62110	04/21/06	04/21/06	EPA 300.0	

Environmental Lab of Texas

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Page 2 of 4

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/24/06 17:04

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED62110 - Water Extraction										
Blank (ED62110-BLK1)				Prepared & Analyzed: 04/21/06						
Chloride	ND	0.500	mg/kg							
LCS (ED62110-BS1)				Prepared & Analyzed: 04/21/06						
Chloride	9.35		mg/L	10.0		93.5	80-120			
Calibration Check (ED62110-CCV1)				Prepared & Analyzed: 04/21/06						
Chloride	8.60		mg/L	10.0		86.0	80-120			
Duplicate (ED62110-DUP1)				Source: 6D19011-09		Prepared & Analyzed: 04/21/06				
Chloride	2380	25.0	mg/kg		2450			2.90	20	

Environmental Lab of Texas

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Page 3 of 4

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/24/06 17:04

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

4-25-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 4 of 4

CLIENT NAME: <u>X-70</u>				SITE MANAGER: <u>Curly Chain</u>				CHAIN—OF—CUSTODY RECORD			
PROJECT NO.: <u>4 0119</u>				PROJECT NAME: <u>EMSA # 187</u>				PARAMETERS/METHOD NUMBER			
PAGE <u>2</u> OF <u>2</u>				LAB. PO #				NUMBER OF CONTAINERS			
DATE		TIME		WATER		SOIL		OTHER		SAMPLE IDENTIFICATION	
4/2/06	14:20									HP 10A	(10-12)
"	14:26									"	(15-17)
"	14:31									"	(20-22)
"	14:58									HP 4A	(10-12)
"	15:02									"	(15-17)
"	15:06									"	(20-22)
4/4/06	09:20									HP 10A	(10-12)
"	09:42									"	(15-17)
"	09:48									"	(20-22)
"	09:58									HP 12	(10-2)
"	10:04									"	(5-7)
"	10:09									"	(10-12)
"	10:15									"	(15-17)
"	10:20									"	(20-22)
"	10:31									HP 2A	(5-7)
"	10:38									"	(10-12)
"	10:41									"	(15-17)
"	10:44									"	(20-22)

SAMPLED BY: (Signature) <u>[Signature]</u>		DATE: <u>4/4/06</u>		RELINQUISHED BY: (Signature) <u>[Signature]</u>		DATE: <u>4/4/06</u>		RECEIVED BY: (Signature) <u>[Signature]</u>		DATE: <u>4/5/06</u>	
RELINQUISHED BY: (Signature) <u>[Signature]</u>		DATE: <u>4/5/06</u>		RECEIVED BY: (Signature) <u>[Signature]</u>		DATE: <u>4/5/06</u>		SAMPLE SHIPPED BY: (Circle)		FEDEX <input checked="" type="checkbox"/> BUS <input type="checkbox"/> UPS <input type="checkbox"/> AIRBILL # <input type="checkbox"/>	
COMMENTS: <input checked="" type="checkbox"/> Add Cl ⁻ at 10-06 as per attached e-mail		TURNAROUND TIME NEEDED		HAND DELIVERED		WHITE - RECEIVING LAB		YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)		PINK - PROJECT MANAGER	
RECEIVING LABORATORY: <u>FIL-01</u>		RECEIVED BY: (Signature) <u>[Signature]</u>		DATE: <u>4/5/06</u>		TIME: <u>12:20</u>		GOLD - QA/QC COORDINATOR		SAMPLE TYPE: <u>Soil</u>	
ADDRESS: <u>LA 4150</u>		STATE: <u>CA</u>		ZIP: <u>90008</u>		LA CONTACT PERSON: <u>C. Chain</u>		SAMPLE CONDITION WHEN RECEIVED: <u>no label / no seal</u>			

Jeanne McMurrey

From: "Cindy Crain" <cindy@laenvironmental.com>
To: "Jeanne McMurrey" <jeanne@elabtexas.com>
Sent: Wednesday, April 19, 2006 10:02 AM
Subject: Request for Additional Analysis

Jeanne,

Would you please run the following two (2) additional samples for Chloride analysis:

Project: XTO/EMSU #187
Project Number: 4-0119
Lab Order Number: 6D05019
Report Date: 4/13/06

- Sample HB-12 (15-17') Sampled 4/4/06 at 1015
- Sample HB-2A (10-12') Sampled 4/4/06 at 1038

Please give me a call if you have any questions or need additional information.

Thank you,

Cindy K. Crain, P.G.

Larson and Associates, Inc.
507 N. Marlenfeld, Ste.202
Midland, TX 79701

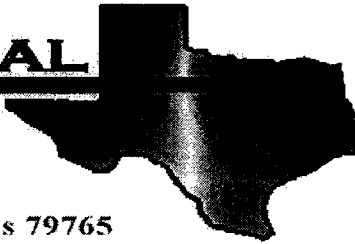
Office: (432) 687-0901
Fax: (432) 687-0456
Cell: (432) 556-8665

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4/19/2006

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: XTO/ EMSU #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 6D05019

Report Date: 04/28/06

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/28/06 14:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HB-8A (5-7')	6D05019-01	Soil	04/03/06 10:40	04/05/06 12:20
HB-13 (0-2')	6D05019-05	Soil	04/03/06 12:00	04/05/06 12:20
HB-13 (5-7')	6D05019-06	Soil	04/03/06 12:05	04/05/06 12:20
HB-13 (10-12')	6D05019-07	Soil	04/03/06 12:09	04/05/06 12:20
HB-9A (10-12')	6D05019-10	Soil	04/03/06 12:34	04/05/06 12:20
HB-9A (15-17')	6D05019-11	Soil	04/03/06 12:39	04/05/06 12:20
HB-1A (10-12')	6D05019-13	Soil	04/03/06 13:00	04/05/06 12:20
HB-1A (15-17')	6D05019-14	Soil	04/03/06 13:06	04/05/06 12:20
HB-11A (10-12')	6D05019-16	Soil	04/03/06 13:41	04/05/06 12:20
HB-6A (10-12')	6D05019-19	Soil	04/03/06 14:20	04/05/06 12:20
HB-4A (10-12')	6D05019-22	Soil	04/03/06 14:58	04/05/06 12:20
HB-10A (10-12')	6D05019-25	Soil	04/04/06 09:36	04/05/06 12:20
HB-10A (15-17')	6D05019-26	Soil	04/04/06 09:42	04/05/06 12:20
HB-12 (0-2')	6D05019-28	Soil	04/04/06 09:58	04/05/06 12:20
HB-12 (5-7')	6D05019-29	Soil	04/04/06 10:04	04/05/06 12:20
HB-12 (10-12')	6D05019-30	Soil	04/04/06 10:09	04/05/06 12:20
HB-12 (20-22')	6D05019-32	Soil	04/04/06 10:20	04/05/06 12:20
HB-2A (5-7')	6D05019-33	Soil	04/04/06 10:31	04/05/06 12:20
HB-2A (15-17')	6D05019-35	Soil	04/04/06 10:47	04/05/06 12:20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/28/06 14:18

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-8A (5-7') (6D05019-01) Soil									
Chloride	489	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-13 (0-2') (6D05019-05) Soil									
Chloride	ND	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-13 (5-7') (6D05019-06) Soil									
Chloride	404	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-13 (10-12') (6D05019-07) Soil									
Chloride	170	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-9A (10-12') (6D05019-10) Soil									
Chloride	872	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-9A (15-17') (6D05019-11) Soil									
Chloride	766	10.0	mg/kg Wet	2	ED62808	04/27/06	04/28/06	SW 846 9253	
HB-1A (10-12') (6D05019-13) Soil									
Chloride	936	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-1A (15-17') (6D05019-14) Soil									
Chloride	1400	20.0	mg/kg Wet	2	ED62808	04/27/06	04/28/06	SW 846 9253	
HB-11A (10-12') (6D05019-16) Soil									
Chloride	117	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	
HB-6A (10-12') (6D05019-19) Soil									
Chloride	223	20.0	mg/kg Wet	2	ED61207	04/05/06	04/12/06	SW 846 9253	

Environmental Lab of Texas

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Page 2 of 6

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/28/06 14:18

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-4A (10-12') (6D05019-22) Soil									
Chloride	553	20.0	mg/kg Wet	2	ED61209	04/05/06	04/12/06	SW 846 9253	
HB-10A (10-12') (6D05019-25) Soil									
Chloride	1070	20.0	mg/kg Wet	2	ED61209	04/05/06	04/12/06	SW 846 9253	
HB-10A (15-17') (6D05019-26) Soil									
Chloride	1740	20.0	mg/kg Wet	2	ED62808	04/27/06	04/28/06	SW 846 9253	
HB-12 (0-2') (6D05019-28) Soil									
Chloride	ND	20.0	mg/kg Wet	2	ED61209	04/05/06	04/12/06	SW 846 9253	
HB-12 (5-7') (6D05019-29) Soil									
Chloride	510	20.0	mg/kg Wet	2	ED61209	04/05/06	04/12/06	SW 846 9253	
HB-12 (10-12') (6D05019-30) Soil									
Chloride	2000	20.0	mg/kg Wet	2	ED61209	04/05/06	04/12/06	SW 846 9253	
HB-12 (20-22') (6D05019-32) Soil									
Chloride	3110	20.0	mg/kg Wet	2	ED62808	04/27/06	04/28/06	SW 846 9253	
HB-2A (5-7') (6D05019-33) Soil									
Chloride	3470	20.0	mg/kg Wet	2	ED61209	04/05/06	04/12/06	SW 846 9253	
HB-2A (15-17') (6D05019-35) Soil									
Chloride	681	20.0	mg/kg Wet	2	ED62808	04/27/06	04/28/06	SW 846 9253	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/28/06 14:18

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch ED61207 - Water Extraction

Blank (ED61207-BLK1) Prepared: 04/05/06 Analyzed: 04/12/06

Chloride ND 20.0 mg/kg Wet

LCS (ED61207-BS1) Prepared & Analyzed: 04/12/06

Chloride 96.8 mg/kg 100 96.8 80-120

Matrix Spike (ED61207-MS1) Source: 6D04010-01 Prepared: 04/05/06 Analyzed: 04/12/06

Chloride 510 20.0 mg/kg Wet 500 0.00 102 80-120

Matrix Spike Dup (ED61207-MSD1) Source: 6D04010-01 Prepared: 04/05/06 Analyzed: 04/12/06

Chloride 500 20.0 mg/kg Wet 500 0.00 100 80-120 1.98 20

Reference (ED61207-SRM1) Prepared & Analyzed: 04/12/06

Chloride 5050 mg/kg 5000 101 80-120

Batch ED61209 - Water Extraction

Blank (ED61209-BLK1) Prepared: 04/05/06 Analyzed: 04/12/06

Chloride ND 20.0 mg/kg Wet

LCS (ED61209-BS1) Prepared & Analyzed: 04/12/06

Chloride 95.7 mg/kg 100 95.7 80-120

Matrix Spike (ED61209-MS1) Source: 6D05019-22 Prepared: 04/05/06 Analyzed: 04/12/06

Chloride 1060 20.0 mg/kg Wet 500 553 101 80-120

Matrix Spike Dup (ED61209-MSD1) Source: 6D05019-22 Prepared: 04/05/06 Analyzed: 04/12/06

Chloride 1050 20.0 mg/kg Wet 500 553 99.4 80-120 0.948 20

Environmental Lab of Texas

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Page 4 of 6

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/28/06 14:18

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch ED61209 - Water Extraction									
Reference (ED61209-SRM1)				Prepared & Analyzed: 04/12/06					
Chloride	4890		mg/kg	5000		97.8	80-120		
Batch ED62808 - Water Extraction									
Blank (ED62808-BLK1)				Prepared: 04/27/06 Analyzed: 04/28/06					
Chloride	ND	20.0	mg/kg Wet						
LCS (ED62808-BS1)				Prepared & Analyzed: 04/28/06					
Chloride	92.5		mg/kg	100		92.5	80-120		
Matrix Spike (ED62808-MS1)				Source: 6D05019-11		Prepared: 04/27/06 Analyzed: 04/28/06			
Chloride	2960		mg/kg	2000	766	110	80-120		
Matrix Spike Dup (ED62808-MSD1)				Source: 6D05019-11		Prepared: 04/27/06 Analyzed: 04/28/06			
Chloride	2980		mg/kg	2000	766	111	80-120	0.673	20
Reference (ED62808-SRM1)				Prepared & Analyzed: 04/28/06					
Chloride	4950		mg/kg	5000		99.0	80-120		

Environmental Lab of Texas

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Page 5 of 6

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
04/28/06 14:18

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Alyssa Keene

Date: 04/28/06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 6 of 6

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Larson

Date/Time: 4/5/06 12:20

Order #: 6D05019

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
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?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	ID on jar
Container labels legible and intact?	Yes	No	n/a
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

Jeanne McMurrey

From: "Cindy Crain" <cindy@laenvironmental.com>
To: "Jeanne McMurrey" <jeanne@elabtexas.com>
Sent: Thursday, April 27, 2006 9:56 AM
Subject: Request for Additional Soil Analysis

Jeanne,

Would you please run the following five (5) additional samples for Chloride analysis:

Project: XTO/EMSU #187
Project Number: 4-0119
Lab Order Number: 6D05019
Report Date: 4/13/06

●	Sample HB-9A (15-17')	Sampled 4/3/06 at 1239
●	Sample HB-10A (15-17')	Sampled 4/4/06 at 0942
●	Sample HB-12 (20-22')	Sampled 4/4/06 at 1020
●	Sample HB-2A (15-17')	Sampled 4/4/06 at 1047
●	Sample HB-1A (15-17')	Sampled 4/3/06 at 1306

Please give me a call if you have any questions or need additional information.

Thank you,

Cindy K. Crain, P.G.

Larson and Associates, Inc.
507 N. Marienfeld, Ste.202
Midland, TX 79701

Office: (432) 687-0901
Fax: (432) 687-0456
Cell: (432) 556-8665

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4/27/2006

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HB-1 0-1'	4K10004-01	Soil	11/09/04 10:10	11/09/04 17:15
HB-1 1-2'	4K10004-02	Soil	11/09/04 10:18	11/09/04 17:15
HB-1 2-3'	4K10004-03	Soil	11/09/04 10:32	11/09/04 17:15
HB-2 0-1'	4K10004-04	Soil	11/09/04 10:49	11/09/04 17:15
HB-2 1-2'	4K10004-05	Soil	11/09/04 10:54	11/09/04 17:15
HB-2 2-3'	4K10004-06	Soil	11/09/04 11:06	11/09/04 17:15
HB-3 0-1'	4K10004-07	Soil	11/09/04 11:11	11/09/04 17:15
HB-3 1-2'	4K10004-08	Soil	11/09/04 11:17	11/09/04 17:15
HB-3 2-3'	4K10004-09	Soil	11/09/04 11:30	11/09/04 17:15
HB-4 0-1'	4K10004-10	Soil	11/09/04 11:37	11/09/04 17:15
HB-4 1-2'	4K10004-11	Soil	11/09/04 11:40	11/09/04 17:15
HB-4 2-3'	4K10004-12	Soil	11/09/04 12:48	11/09/04 17:15
HB-5 0-1'	4K10004-13	Soil	11/09/04 12:52	11/09/04 17:15
HB-5 1-2'	4K10004-14	Soil	11/09/04 12:58	11/09/04 17:15
HB-5 2-3'	4K10004-15	Soil	11/09/04 13:18	11/09/04 17:15
HB-6 0-1'	4K10004-16	Soil	11/09/04 13:21	11/09/04 17:15
HB-6 1-2'	4K10004-17	Soil	11/09/04 13:24	11/09/04 17:15
HB-6 2-3'	4K10004-18	Soil	11/09/04 13:38	11/09/04 17:15
HB-7 0-1'	4K10004-19	Soil	11/09/04 13:33	11/09/04 17:15
HB-7 1-2'	4K10004-20	Soil	11/09/04 13:38	11/09/04 17:15
HB-7 2-3'	4K10004-21	Soil	11/09/04 13:43	11/09/04 17:15
HB-8 0-1'	4K10004-22	Soil	11/09/04 13:54	11/09/04 17:15
HB-8 1-2'	4K10004-23	Soil	11/09/04 13:58	11/09/04 17:15
HB-8 2-3'	4K10004-24	Soil	11/09/04 14:01	11/09/04 17:15
Background 0-1'	4K10004-25	Soil	11/09/04 14:05	11/09/04 17:15
Background 1-2'	4K10004-26	Soil	11/09/04 14:10	11/09/04 17:15
Background 2-3'	4K10004-27	Soil	11/09/04 14:13	11/09/04 17:15

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-1 0-1' (4K10004-01) Soil									
Gasoline Range Organics C6-C12	J [9.70]	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	J
Diesel Range Organics >C12-C35	66.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	66.0	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		109 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		125 %	70-130		"	"	"	"	
HB-1 1-2' (4K10004-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		108 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		123 %	70-130		"	"	"	"	
HB-1 2-3' (4K10004-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	
HB-2 0-1' (4K10004-04) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	107	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	107	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	
HB-2 1-2' (4K10004-05) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	68.0	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	68.0	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		100 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-130		"	"	"	"	

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Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

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Reported:
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Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-2 2-3' (4K10004-06) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-130		"	"	"	"	
HB-3 0-1' (4K10004-07) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		92.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	
HB-3 1-2' (4K10004-08) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		101 %	70-130		"	"	"	"	
HB-3 2-3' (4K10004-09) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		99.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		113 %	70-130		"	"	"	"	
HB-4 0-1' (4K10004-10) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		101 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-130		"	"	"	"	

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Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

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Reported:
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-4 1-2' (4K10004-11) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		118 %	70-130		"	"	"	"	
HB-4 2-3' (4K10004-12) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		102 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		116 %	70-130		"	"	"	"	
HB-5 0-1' (4K10004-13) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
HB-5 1-2' (4K10004-14) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-130		"	"	"	"	
HB-5 2-3' (4K10004-15) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		111 %	70-130		"	"	"	"	

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Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

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Reported:
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Organics by GC
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-6 0-1' (4K10004-16) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	286	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	286	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		102 %	70-130		"	"	"	"	
HB-6 1-2' (4K10004-17) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/10/04	EPA 8015M	
Diesel Range Organics >C12-C35	191	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	191	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.8 %	70-130		"	"	"	"	
HB-6 2-3' (4K10004-18) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-130		"	"	"	"	
HB-7 0-1' (4K10004-19) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		95.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
HB-7 1-2' (4K10004-20) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	142	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	142	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		90.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.4 %	70-130		"	"	"	"	

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Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

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Reported:
11/12/04 16:01

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-7 2-3' (4K10004-21) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		103 %	70-130		"	"	"	"	
HB-8 0-1' (4K10004-22) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		107 %	70-130		"	"	"	"	
HB-8 1-2' (4K10004-23) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		77.6 %	70-130		"	"	"	"	
HB-8 2-3' (4K10004-24) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.6 %	70-130		"	"	"	"	
Background 0-1' (4K10004-25) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		85.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		82.0 %	70-130		"	"	"	"	

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Reported:
11/12/04 16:01

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Background 1-2' (4K10004-26) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		88.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		100 %	70-130		"	"	"	"	
Background 2-3' (4K10004-27) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK40906	11/10/04	11/11/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		93.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	

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Reported:
11/12/04 16:01

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-1 0-1' (4K10004-01) Soil									
Chloride	638	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	7.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-1 1-2' (4K10004-02) Soil									
Chloride	808	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	11.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-1 2-3' (4K10004-03) Soil									
Chloride	399	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	10.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-2 0-1' (4K10004-04) Soil									
Chloride	2800	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	8.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-2 1-2' (4K10004-05) Soil									
Chloride	1300	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	5.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-2 2-3' (4K10004-06) Soil									
Chloride	1130	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	7.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-3 0-1' (4K10004-07) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	3.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-3 1-2' (4K10004-08) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	6.0		%	1	EK41101	11/10/04	11/11/04	% calculation	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-3 2-3' (4K10004-09) Soil									
Chloride	ND	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	5.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-4 0-1' (4K10004-10) Soil									
Chloride	97.7	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	11.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-4 1-2' (4K10004-11) Soil									
Chloride	638	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	11.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-4 2-3' (4K10004-12) Soil									
Chloride	915	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	12.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-5 0-1' (4K10004-13) Soil									
Chloride	ND	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	6.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-5 1-2' (4K10004-14) Soil									
Chloride	31.9	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	14.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-5 2-3' (4K10004-15) Soil									
Chloride	ND	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	11.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-6 0-1' (4K10004-16) Soil									
Chloride	362	20.0 mg/kg Wet		2	EK41208	11/10/04	11/11/04	SW 846 9253	
% Moisture	2.0		%	1	EK41101	11/10/04	11/11/04	% calculation	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-6 1-2' (4K10004-17) Soil									
Chloride	319	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	4.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-6 2-3' (4K10004-18) Soil									
Chloride	585	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	6.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-7 0-1' (4K10004-19) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	10.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-7 1-2' (4K10004-20) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	12.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-7 2-3' (4K10004-21) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	12.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-8 0-1' (4K10004-22) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	4.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-8 1-2' (4K10004-23) Soil									
Chloride	42.5	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	6.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
HB-8 2-3' (4K10004-24) Soil									
Chloride	63.8	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	7.0		%	1	EK41101	11/10/04	11/11/04	% calculation	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Background 0-1' (4K10004-25) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	3.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
Background 1-2' (4K10004-26) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	8.0		%	1	EK41101	11/10/04	11/11/04	% calculation	
Background 2-3' (4K10004-27) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41209	11/10/04	11/11/04	SW 846 9253	
% Moisture	7.0		%	1	EK41101	11/10/04	11/11/04	% calculation	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EK40906 - Solvent Extraction (GC)

Blank (EK40906-BLK1)

Prepared: 11/09/04 Analyzed: 11/10/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	38.4		mg/kg	50.0		76.8	70-130		
Surrogate: 1-Chlorooctadecane	45.4		"	50.0		90.8	70-130		

Blank (EK40906-BLK2)

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet						
Diesel Range Organics >C12-C35	ND	10.0	"						
Total Hydrocarbon C6-C35	ND	10.0	"						
Surrogate: 1-Chlorooctane	38.3		mg/kg	50.0		76.6	70-130		
Surrogate: 1-Chlorooctadecane	44.3		"	50.0		88.6	70-130		

LCS (EK40906-BS1)

Prepared: 11/09/04 Analyzed: 11/10/04

Gasoline Range Organics C6-C12	439		mg/kg	500		87.8	75-125		
Diesel Range Organics >C12-C35	523		"	500		105	75-125		
Total Hydrocarbon C6-C35	962		"	1000		96.2	75-125		
Surrogate: 1-Chlorooctane	49.1		"	50.0		98.2	70-130		
Surrogate: 1-Chlorooctadecane	47.2		"	50.0		94.4	70-130		

LCS (EK40906-BS2)

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	447	10.0	mg/kg wet	500		89.4	75-125		
Diesel Range Organics >C12-C35	530	10.0	"	500		106	75-125		
Total Hydrocarbon C6-C35	977	10.0	"	1000		97.7	75-125		
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.6	70-130		
Surrogate: 1-Chlorooctadecane	49.1		"	50.0		98.2	70-130		

Calibration Check (EK40906-CCV1)

Prepared: 11/09/04 Analyzed: 11/10/04

Gasoline Range Organics C6-C12	527		mg/kg	500		105	80-120		
Diesel Range Organics >C12-C35	561		"	500		112	80-120		
Total Hydrocarbon C6-C35	1090		"	1000		109	80-120		
Surrogate: 1-Chlorooctane	57.0		"	50.0		114	70-130		
Surrogate: 1-Chlorooctadecane	57.7		"	50.0		115	70-130		

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK40906 - Solvent Extraction (GC)

Calibration Check (EK40906-CCV2)

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	497		mg/kg	500		99.4	80-120			
Diesel Range Organics >C12-C35	559		"	500		112	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	53.8		"	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	55.0		"	50.0		110	70-130			

Matrix Spike (EK40906-MS1)

Source: 4K10004-05

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	548	10.0	mg/kg dry	526	ND	104	75-125			
Diesel Range Organics >C12-C35	648	10.0	"	526	68.0	110	75-125			
Total Hydrocarbon C6-C35	1200	10.0	"	1050	68.0	108	75-125			
Surrogate: 1-Chlorooctane	63.6		mg/kg	50.0		127	70-130			
Surrogate: 1-Chlorooctadecane	62.7		"	50.0		125	70-130			

Matrix Spike (EK40906-MS2)

Source: 4K10004-15

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	572	10.0	mg/kg dry	562	ND	102	75-125			
Diesel Range Organics >C12-C35	628	10.0	"	562	ND	112	75-125			
Total Hydrocarbon C6-C35	1200	10.0	"	1120	ND	107	75-125			
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	51.6		"	50.0		103	70-130			

Matrix Spike Dup (EK40906-MSD1)

Source: 4K10004-05

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	537	10.0	mg/kg dry	526	ND	102	75-125	2.03	20	
Diesel Range Organics >C12-C35	661	10.0	"	526	68.0	113	75-125	1.99	20	
Total Hydrocarbon C6-C35	1200	10.0	"	1050	68.0	108	75-125	0.00	20	
Surrogate: 1-Chlorooctane	61.2		mg/kg	50.0		122	70-130			
Surrogate: 1-Chlorooctadecane	57.1		"	50.0		114	70-130			

Matrix Spike Dup (EK40906-MSD2)

Source: 4K10004-15

Prepared & Analyzed: 11/10/04

Gasoline Range Organics C6-C12	569	10.0	mg/kg dry	562	ND	101	75-125	0.526	20	
Diesel Range Organics >C12-C35	625	10.0	"	562	ND	111	75-125	0.479	20	
Total Hydrocarbon C6-C35	1190	10.0	"	1120	ND	106	75-125	0.837	20	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	51.5		"	50.0		103	70-130			

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK41101 - General Preparation (Prep)

Blank (EK41101-BLK1) Prepared: 11/10/04 Analyzed: 11/11/04

% Moisture 0.0 %

Duplicate (EK41101-DUP1) Source: 4K10004-01 Prepared: 11/10/04 Analyzed: 11/11/04

% Moisture 7.0 % 7.0 0.00 20

Batch EK41208 - Water Extraction

Blank (EK41208-BLK1) Prepared: 11/09/04 Analyzed: 11/11/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EK41208-MS1) Source: 4K09008-01 Prepared: 11/09/04 Analyzed: 11/11/04

Chloride 2140 20.0 mg/kg Wet 500 1630 102 80-120

Matrix Spike Dup (EK41208-MSD1) Source: 4K09008-01 Prepared: 11/09/04 Analyzed: 11/11/04

Chloride 2150 20.0 mg/kg Wet 500 1630 104 80-120 0.466 20

Reference (EK41208-SRM1) Prepared & Analyzed: 11/11/04

Chloride 5000 mg/kg 5000 100 80-120

Batch EK41209 - Water Extraction

Blank (EK41209-BLK1) Prepared: 11/10/04 Analyzed: 11/11/04

Chloride ND 20.0 mg/kg Wet

Matrix Spike (EK41209-MS1) Source: 4K10004-17 Prepared: 11/10/04 Analyzed: 11/11/04

Chloride 808 20.0 mg/kg Wet 500 319 97.8 80-120

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK41209 - Water Extraction

Matrix Spike Dup (EK41209-MSD1) **Source: 4K10004-17** Prepared: 11/10/04 Analyzed: 11/11/04

Chloride	819	20.0	mg/kg Wet	500	319	100	80-120	1.35	20	
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Reference (EK41209-SRM1)

Prepared & Analyzed: 11/11/04

Chloride	5000		mg/kg	5000		100	80-120			
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Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ Well #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
11/12/04 16:01

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 11-15-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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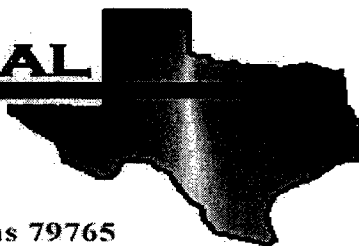
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ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Cindy Crain

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: XTO/ EMSU #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 6E01001

Report Date: 05/04/06

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
05/04/06 12:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HB-1A (20-22')	6E01001-01	Soil	04/03/06 13:16	04/05/06 12:20
HB-10A (20-22')	6E01001-02	Soil	04/04/06 09:48	04/05/06 12:20
HB-12 (20-22')	6E01001-03	Soil	04/04/06 10:20	04/05/06 12:20

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
05/04/06 12:02

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-1A (20-22') (6E01001-01) Soil									
Chloride	441	10.0	mg/kg	20	EE60204	05/02/06	05/02/06	EPA 300.0	O-04
HB-10A (20-22') (6E01001-02) Soil									
Chloride	959	25.0	mg/kg	50	EE60204	05/02/06	05/02/06	EPA 300.0	O-04
HB-12 (20-22') (6E01001-03) Soil									
Chloride	177	10.0	mg/L	2	EE60312	05/04/06	05/04/06	1312/9253	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
05/04/06 12:02

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE60204 - Water Extraction

Blank (EE60204-BLK1) Prepared & Analyzed: 05/02/06

Chloride ND 0.500 mg/kg

LCS (EE60204-BS1) Prepared & Analyzed: 05/02/06

Chloride 10.1 0.500 mg/kg 10.0 101 80-120

Calibration Check (EE60204-CCV1) Prepared & Analyzed: 05/02/06

Chloride 9.88 mg/L 10.0 98.8 80-120

Duplicate (EE60204-DUP1) Source: 6D25002-21 Prepared & Analyzed: 05/02/06

Chloride 124 5.00 mg/kg 125 0.803 20

Batch EE60312 - EPA 1312/9253

Blank (EE60312-BLK1) Prepared & Analyzed: 05/04/06

Chloride 14.2 10.0 mg/L B

LCS (EE60312-BS1) Prepared & Analyzed: 05/04/06

Chloride 97.5 mg/L 100 97.5 80-120

Matrix Spike (EE60312-MS1) Source: 6E01001-03 Prepared & Analyzed: 05/04/06

Chloride 674 10.0 mg/L 500 177 99.4 80-120

Matrix Spike Dup (EE60312-MSD1) Source: 6E01001-03 Prepared & Analyzed: 05/04/06

Chloride 665 10.0 mg/L 500 177 97.6 80-120 1.34 20

Reference (EE60312-SRM1) Prepared & Analyzed: 05/04/06

Chloride 4960 mg/L 5000 99.2 80-120

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Cindy Crain

Fax: (432) 687-0456

Reported:
05/04/06 12:02

Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time.
B Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K Tuttle

Date:

5-04-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 4 of 4

CHAIN—OF—CUSTODY RECORD

LA arson & associates, Inc. Fax: 432-687-0456
Environmental Consultants 432-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
6D 05019-01	
-02	
-03	
-04	
-05	
-06	
-07	
-08	
-09	
-10	
-11	
-12	
-13	
-14	
-15	
-16	
-17	
-18	

RECEIVED BY: (Signature) _____ DATE: _____
TIME: _____

SAMPLE SHIPPED BY: (Circle)
FEDEX _____ BUS _____ AIRBILL # _____
HAND DELIVERED _____ UPS _____ OTHER: _____

WHITE - RECEIVING LAB
YELLOW - RECEIVING LAB (TO BE RETURNED TO
LA AFTER RECEIPT)
PINK - PROJECT MANAGER
GOLD - QA/QC COORDINATOR

SAMPLE TYPE: _____

PARAMETERS/METHOD NUMBER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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DATE: 4/13/04
TIME: 1220

DATE: _____
TIME: _____

TURNAROUND TIME NEEDED

LA CONTACT PERSON: _____

SITE MANAGER: Cathy Crain

PROJECT NAME: EMCU # 181

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS
4/13/04	10:10				HB 8A (5-7')	1
"	10:18				" (10-12')	1
"	10:55				" (15-17')	1
"	10:59				" (20-22')	1
"	12:00				HB 13 (0-2')	1
"	12:05				" (5-7')	1
"	12:09				" (10-12')	1
"	12:13				" (15-17')	1
"	12:16				" (20-22')	1
"	12:24				HB 9A (10-12')	1
"	12:29				" (15-17')	1
"	12:41				" (20-22')	1
"	13:00				HB 1A (10-12')	1
"	13:06				" (15-17')	1
"	13:16				" (20-22')	1
"	13:41				HB 11A (10-12')	1
"	13:54				" (15-17')	1
"	14:04				" (20-22')	1

DATE: 4/13/04
TIME: 1241

DATE: _____
TIME: _____

RECEIVED BY: (Signature) _____
DATE: 4/15/04 TIME: 14:20

LA CONTACT PERSON: C. Crain

CLIENT NAME: XTO

PROJECT NO.: 41 0114

PAGE	1	OF	2	LAB. PO #
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SAMPLED BY: (Signature) _____ DATE: 4/13/04
TIME: 1241

RELINQUISHED BY: (Signature) _____ DATE: _____
TIME: _____

COMMENTS: Add 5-1-5 as per attached e-mail

RECEIVING LABORATORY: 7-1-01
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
CONTACT: _____ PHONE: _____

SAMPLE CONDITION WHEN RECEIVED: 4.5 no label/no seal

Jeanne McMurrey

From: "Cindy Crain" <cindy@laenvironmental.com>
To: "Jeanne McMurrey" <jeanne@elabtexas.com>
Sent: Monday, May 01, 2006 9:21 AM
Subject: FW: Request for Additional Soil Analysis

Jeanne,

Would you please run the following two (2) additional samples for Chloride analysis:

Project: XTO/EMSU #187
Project Number: 4-0119
Lab Order Number: 6D05019
Report Date: 4/13/06

- Sample HB-10A (20-22') Sampled 4/4/06 at 0948
- Sample HB-1A (20-22') Sampled 4/3/06 at 1316

In addition, please run the following sample for SPLP analysis for chloride:

- Sample HB-12 (20-22') Sampled 4/4/06 at 1020

Please give me a call if you have any questions or need additional information.

Thank you,

Cindy K. Crain, P.G.

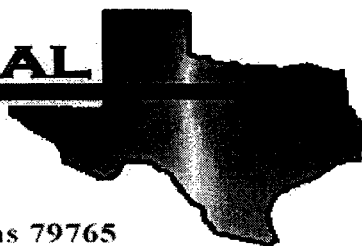
Larson and Associates, Inc.
507 N. Marienfeld, Ste.202
Midland, TX 79701

office: (432) 687-0901
fax: (432) 687-0456
cell: (432) 556-8665

--
This message has been scanned for viruses and
dangerous content by BasinBroadband, and is
believed to be clean.

5/1/2006

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: XTO/ EMSU #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 6G07011

Report Date: 07/14/06

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HB-12, 25-26'	6G07011-01	Soil	07/06/06 09:18	07/07/06 11:10
HB-12, 30-31'	6G07011-02	Soil	07/06/06 09:30	07/07/06 11:10
HB-12, 35-36'	6G07011-03	Soil	07/06/06 09:36	07/07/06 11:10
HB-14, 0-2'	6G07011-05	Soil	07/06/06 10:10	07/07/06 11:10
HB-14, 5-6'	6G07011-06	Soil	07/06/06 10:15	07/07/06 11:10
HB-14, 10-11'	6G07011-07	Soil	07/06/06 10:20	07/07/06 11:10
HB-14, 15-16'	6G07011-08	Soil	07/06/06 10:23	07/07/06 11:10
HB-14, 20-21'	6G07011-09	Soil	07/06/06 10:28	07/07/06 11:10
HB-14, 25-26'	6G07011-10	Soil	07/06/06 10:34	07/07/06 11:10
HB-14, 30-31'	6G07011-11	Soil	07/06/06 10:40	07/07/06 11:10
HB-14, 35-36'	6G07011-12	Soil	07/06/06 10:48	07/07/06 11:10
Background, 0-2'	6G07011-14	Soil	07/06/06 13:26	07/07/06 11:10
Background, 5-6'	6G07011-15	Soil	07/06/06 13:30	07/07/06 11:10
Background, 10-11'	6G07011-16	Soil	07/06/06 13:34	07/07/06 11:10
Background, 15-16'	6G07011-17	Soil	07/06/06 13:36	07/07/06 11:10
Background, 20-21'	6G07011-18	Soil	07/06/06 13:43	07/07/06 11:10
Background, 25-26'	6G07011-19	Soil	07/06/06 13:50	07/07/06 11:10
Background, 30-31'	6G07011-20	Soil	07/06/06 14:02	07/07/06 11:10
Background, 35-36'	6G07011-21	Soil	07/06/06 14:10	07/07/06 11:10
HB-8A, 10-11'	6G07011-23	Soil	07/06/06 14:42	07/07/06 11:10
HB-8A, 15-16'	6G07011-24	Soil	07/06/06 14:46	07/07/06 11:10
HB-8A, 20-21'	6G07011-25	Soil	07/06/06 14:53	07/07/06 11:10
HB-15, 0-2'	6G07011-27	Soil	07/06/06 15:30	07/07/06 11:10
HB-15, 5-6'	6G07011-28	Soil	07/06/06 15:35	07/07/06 11:10
HB-15, 10-11'	6G07011-29	Soil	07/06/06 15:40	07/07/06 11:10
HB-15, 15-16'	6G07011-30	Soil	07/06/06 15:45	07/07/06 11:10
HB-15, 20-21'	6G07011-31	Soil	07/06/06 15:48	07/07/06 11:10
HB-9A, 20-21'	6G07011-33	Soil	07/06/06 16:20	07/07/06 11:10
HB-9A, 25-26'	6G07011-34	Soil	07/06/06 16:27	07/07/06 11:10
HB-9A, 30-31'	6G07011-35	Soil	07/06/06 16:34	07/07/06 11:10

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-12, 25-26' (6G07011-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF62601	07/07/06	07/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		96.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.2 %	70-130		"	"	"	"	

HB-14, 15-16' (6G07011-08) Soil

Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF62601	07/07/06	07/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		98.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		99.0 %	70-130		"	"	"	"	

HB-15, 5-6' (6G07011-28) Soil

Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EF62601	07/07/06	07/08/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon nC6-nC35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		96.8 %	70-130		"	"	"	"	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-12, 25-26' (6G07011-01) Soil									
Chloride	2340	20.0	mg/kg Wet	2	EG61003	07/10/06	07/11/06	SW 846 9253	
% Moisture	4.3	0.1	%	1	EG61010	07/07/06	07/10/06	% calculation	
HB-12, 30-31' (6G07011-02) Soil									
Chloride	510	20.0	mg/kg Wet	2	EG61003	07/10/06	07/11/06	SW 846 9253	
HB-12, 35-36' (6G07011-03) Soil									
Chloride	1020	20.0	mg/kg Wet	2	EG61003	07/10/06	07/11/06	SW 846 9253	
HB-14, 0-2' (6G07011-05) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-14, 5-6' (6G07011-06) Soil									
Chloride	978	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-14, 10-11' (6G07011-07) Soil									
Chloride	681	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-14, 15-16' (6G07011-08) Soil									
Chloride	893	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
% Moisture	6.9	0.1	%	1	EG61010	07/07/06	07/10/06	% calculation	
HB-14, 20-21' (6G07011-09) Soil									
Chloride	1700	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-14, 25-26' (6G07011-10) Soil									
Chloride	638	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-14, 30-31' (6G07011-11) Soil									
Chloride	553	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	

Environmental Lab of Texas

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Page 3 of 11

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-14, 35-36' (6G07011-12) Soil									
Chloride	298	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 0-2' (6G07011-14) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 5-6' (6G07011-15) Soil									
Chloride	31.9	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 10-11' (6G07011-16) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 15-16' (6G07011-17) Soil									
Chloride	85.1	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 20-21' (6G07011-18) Soil									
Chloride	42.5	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 25-26' (6G07011-19) Soil									
Chloride	21.3	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 30-31' (6G07011-20) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
Background, 35-36' (6G07011-21) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-8A, 10-11' (6G07011-23) Soil									
Chloride	31.9	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	

Environmental Lab of Texas

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Page 4 of 11

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-8A, 15-16' (6G07011-24) Soil									
Chloride	21.3	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-8A, 20-21' (6G07011-25) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-15, 0-2' (6G07011-27) Soil									
Chloride	31.9	20.0	mg/kg Wet	2	EG61004	07/10/06	07/11/06	SW 846 9253	
HB-15, 5-6' (6G07011-28) Soil									
Chloride	74.4	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	
% Moisture	3.0	0.1	%	1	EG61010	07/07/06	07/10/06	% calculation	
HB-15, 10-11' (6G07011-29) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	
HB-15, 15-16' (6G07011-30) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	
HB-15, 20-21' (6G07011-31) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	
HB-9A, 20-21' (6G07011-33) Soil									
Chloride	1470	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	
HB-9A, 25-26' (6G07011-34) Soil									
Chloride	319	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	
HB-9A, 30-31' (6G07011-35) Soil									
Chloride	340	20.0	mg/kg Wet	2	EG61005	07/10/06	07/11/06	SW 846 9253	

Environmental Lab of Texas

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Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EF62601 - Solvent Extraction (GC)

Blank (EF62601-BLK1)

Prepared: 07/07/06 Analyzed: 07/08/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet
Carbon Ranges C12-C28	ND	10.0	"
Carbon Ranges C28-C35	ND	10.0	"
Total Hydrocarbon nC6-nC35	ND	10.0	"

Surrogate: 1-Chlorooctane	47.9	mg/kg	50.0	95.8	70-130
Surrogate: 1-Chlorooctadecane	47.0	"	50.0	94.0	70-130

LCS (EF62601-BS1)

Prepared: 07/07/06 Analyzed: 07/08/06

Carbon Ranges C6-C12	511	10.0	mg/kg wet	500	102	75-125
Carbon Ranges C12-C28	517	10.0	"	500	103	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00		75-125
Total Hydrocarbon nC6-nC35	1030	10.0	"	1000	103	75-125

Surrogate: 1-Chlorooctane	56.8	mg/kg	50.0	114	70-130
Surrogate: 1-Chlorooctadecane	48.1	"	50.0	96.2	70-130

Calibration Check (EF62601-CCV1)

Prepared: 07/07/06 Analyzed: 07/10/06

Carbon Ranges C6-C12	272	mg/kg	250	109	80-120
Carbon Ranges C12-C28	277	"	250	111	80-120
Total Hydrocarbon nC6-nC35	549	"	500	110	80-120

Surrogate: 1-Chlorooctane	46.9	"	50.0	93.8	70-130
Surrogate: 1-Chlorooctadecane	44.9	"	50.0	89.8	70-130

Matrix Spike (EF62601-MS1)

Source: 6G07010-02

Prepared: 07/07/06 Analyzed: 07/08/06

Carbon Ranges C6-C12	509	10.0	mg/kg dry	541	ND	94.1	75-125
Carbon Ranges C12-C28	521	10.0	"	541	ND	96.3	75-125
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125
Total Hydrocarbon nC6-nC35	1030	10.0	"	1080	ND	95.4	75-125

Surrogate: 1-Chlorooctane	55.8	mg/kg	50.0	112	70-130
Surrogate: 1-Chlorooctadecane	48.6	"	50.0	97.2	70-130

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF62601 - Solvent Extraction (GC)

Matrix Spike Dup (EF62601-MSD1)

Source: 6G07010-02

Prepared: 07/07/06

Analyzed: 07/08/06

Carbon Ranges C6-C12	513	10.0	mg/kg dry	541	ND	94.8	75-125	0.783	20	
Carbon Ranges C12-C28	522	10.0	"	541	ND	96.5	75-125	0.192	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon nC6-nC35	1040	10.0	"	1080	ND	96.3	75-125	0.966	20	
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
Surrogate: 1-Chlorooctadecane	49.6		"	50.0		99.2	70-130			

Environmental Lab of Texas

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Page 7 of 11

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EG61003 - General Preparation (WetChem)

Blank (EG61003-BLK1) Prepared: 07/10/06 Analyzed: 07/11/06

Chloride ND 20.0 mg/kg Wet

LCS (EG61003-BS1) Prepared & Analyzed: 07/11/06

Chloride 83.0 mg/kg 100 83.0 80-120

Matrix Spike (EG61003-MS1) Source: 6G07006-01 Prepared: 07/10/06 Analyzed: 07/11/06

Chloride 17800 20.0 mg/kg Wet 500 17200 120 80-120

Matrix Spike Dup (EG61003-MSD1) Source: 6G07006-01 Prepared: 07/10/06 Analyzed: 07/11/06

Chloride 17800 20.0 mg/kg Wet 500 17200 120 80-120 0.00 20

Reference (EG61003-SRM1) Prepared & Analyzed: 07/11/06

Chloride 50.0 mg/kg 50.0 100 80-120

Batch EG61004 - General Preparation (WetChem)

Blank (EG61004-BLK1) Prepared: 07/10/06 Analyzed: 07/11/06

Chloride ND 20.0 mg/kg Wet

LCS (EG61004-BS1) Prepared & Analyzed: 07/11/06

Chloride 80.8 mg/kg 100 80.8 80-120

Matrix Spike (EG61004-MS1) Source: 6G07011-07 Prepared: 07/10/06 Analyzed: 07/11/06

Chloride 1110 20.0 mg/kg Wet 500 681 85.8 80-120

Matrix Spike Dup (EG61004-MSD1) Source: 6G07011-07 Prepared: 07/10/06 Analyzed: 07/11/06

Chloride 1110 20.0 mg/kg Wet 500 681 85.8 80-120 0.00 20

Environmental Lab of Texas

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Page 8 of 11

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EG61004 - General Preparation (WetChem)									
Reference (EG61004-SRM1)				Prepared & Analyzed: 07/11/06					
Chloride	51.0		mg/kg	50.0		102	80-120		
Batch EG61005 - General Preparation (WetChem)									
Blank (EG61005-BLK1)				Prepared: 07/10/06 Analyzed: 07/11/06					
Chloride	ND	20.0	mg/kg Wet						
LCS (EG61005-BS1)				Prepared & Analyzed: 07/11/06					
Chloride	84.0		mg/kg	100		84.0	80-120		
Matrix Spike (EG61005-MS1)				Source: 6G07011-30		Prepared: 07/10/06 Analyzed: 07/11/06			
Chloride	489	20.0	mg/kg Wet	500	0.00	97.8	80-120		
Matrix Spike Dup (EG61005-MSD1)				Source: 6G07011-30		Prepared: 07/10/06 Analyzed: 07/11/06			
Chloride	489	20.0	mg/kg Wet	500	0.00	97.8	80-120	0.00	20
Reference (EG61005-SRM1)				Prepared & Analyzed: 07/11/06					
Chloride	52.1		mg/kg	50.0		104	80-120		
Batch EG61010 - General Preparation (Prep)									
Blank (EG61010-BLK1)				Prepared: 07/07/06 Analyzed: 07/11/06					
% Moisture	ND	0.1	%						
Duplicate (EG61010-DUP1)				Source: 6G07002-01		Prepared: 07/07/06 Analyzed: 07/10/06			
% Solids	92.8		%		94.6		1.92	20	

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EG61010 - General Preparation (Prep)

Duplicate (EG61010-DUP2) **Source: 6G07004-12** Prepared: 07/07/06 Analyzed: 07/10/06

% Solids	86.8		%		87.8			1.15	20	
----------	------	--	---	--	------	--	--	------	----	--

Duplicate (EG61010-DUP3) **Source: 6G07007-03** Prepared: 07/07/06 Analyzed: 07/10/06

% Solids	90.1		%		89.0			1.23	20	
----------	------	--	---	--	------	--	--	------	----	--

Duplicate (EG61010-DUP4) **Source: 6G07012-03** Prepared: 07/07/06 Analyzed: 07/10/06

% Solids	95.2		%		94.0			1.27	20	
----------	------	--	---	--	------	--	--	------	----	--

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

7-14-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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Page 11 of 11

CHAIN-OF-CUSTODY RECORD

CLIENT NAME: **XTO Energy, Inc.**
 PROJECT NO.: **4-0119**
 SITE MANAGER: **Mark Larson**
 PROJECT NAME: **ERISU well #187**

RECEIVING LABORATORY: **ELT**
 ADDRESS: **12600 W 1-20 E**
 CITY: **Odessa** STATE: **TX** ZIP: **79765**
 CONTACT: **Belend Turtle** PHONE: **(432) 563-1800**

SAMPLE CONDITION WHEN RECEIVED:
4oz glass 4.0 w/labels

LAB. I.D. NUMBER (LAB USE ONLY): **6907011-01**
 REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE):
LA arson & ssociates, Inc. Fax: 432-687-0456 432-687-0901
507 N. Marientfeld, Ste. 202 • Midland, TX 79701

RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER
1/4/06	09:18		X		HB-12, 25-26'	1	
	09:30				HB-12, 30-31'	1	
	09:36				HB-12, 35-36'	1	
	09:45				HB-12, 40-41'	1	
	10:10				HB-14, 0-2'	1	
	10:15				HB-14, 5-6'	1	
	10:20				HB-14, 10-11'	1	
	10:23				HB-14, 15-16'	1	
	10:25				HB-14, 20-21'	1	
	10:34				HB-14, 25-26'	1	
	10:40				HB-14, 30-31'	1	
	10:48				HB-14, 35-36'	1	
	10:53				HB-14, 40-41'	1	
	13:26				background, 0-2'	1	
	13:30				background, 5-6'	1	
	13:34				background, 10-11'	1	
	13:36				background, 15-16'	1	
	13:43				background, 20-21'	1	

RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____

RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____

SAMPLE SHIPPED BY: (Circle)
 FEDEX ☐ HAND DELIVERED ☒ BUS ☐ UPS ☐ AIRBILL # _____ OTHER: _____

WHITE ☐ YELLOW ☐ PINK ☐ GOLD ☐ - RECEIVING LAB
 - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
 - PROJECT MANAGER
 - QA/QC COORDINATOR

RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____

COMMENTS:
LA arson & ssociates, Inc. Fax: 432-687-0456 432-687-0901
507 N. Marientfeld, Ste. 202 • Midland, TX 79701

RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____

LA CONTACT PERSON: **M. Larson**

RECEIVED BY: (Signature) _____ DATE: _____ TIME: _____

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: Larson

Date/Time: 7/7/06 11:10

Order #: 6607011

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 C
Shipping container/cooler in good condition?	Yes	No	
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	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	IP on lid
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

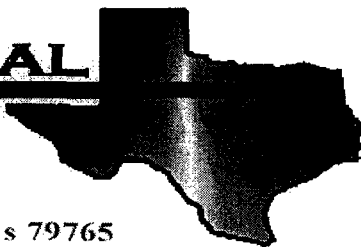
Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: XTO/ EMSU #187

Project Number: 4-0119

Location: None Given

Lab Order Number: 6G17005

Report Date: 07/20/06

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HB-12 40-41'	6G17005-01	Soil	07/06/06 09:45	07/07/06 11:10

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HB-12 40-41' (6G17005-01) Soil									
Chloride	1110	20.0	mg/kg	40	EG61910	07/19/06	07/19/06	EPA 300.0	

Environmental Lab of Texas

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Page 2 of 4

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG61910 - General Preparation (WetChem)										
Blank (EG61910-BLK1)				Prepared & Analyzed: 07/19/06						
Chloride	ND	0.500	mg/kg							
LCS (EG61910-BS1)				Prepared & Analyzed: 07/19/06						
Chloride	10.2	0.500	mg/kg	10.0		102	80-120			
Calibration Check (EG61910-CCV1)				Prepared & Analyzed: 07/19/06						
Chloride	10.2		mg/L	10.0		102	80-120			
Duplicate (EG61910-DUP1)				Source: 6G14012-02		Prepared & Analyzed: 07/19/06				
Chloride	542	10.0	mg/kg		544			0.368	20	
Duplicate (EG61910-DUP2)				Source: 6G14008-03		Prepared & Analyzed: 07/19/06				
Chloride	63.5	5.00	mg/kg		67.2			5.66	20	
Matrix Spike (EG61910-MS1)				Source: 6G14012-02		Prepared & Analyzed: 07/19/06				
Chloride	796	10.0	mg/kg	200	544	126	80-120			S-07
Matrix Spike (EG61910-MS2)				Source: 6G14008-03		Prepared & Analyzed: 07/19/06				
Chloride	168	5.00	mg/kg	100	67.2	101	80-120			

Environmental Lab of Texas

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Page 3 of 4

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: XTO/ EMSU #187
Project Number: 4-0119
Project Manager: Mark Larson

Fax: (432) 687-0456

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 7-20-06

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Page 4 of 4

CHAIN-OF-CUSTODY RECORD

CLIENT NAME: **XTO Energy, Inc.**

SITE MANAGER: **Mark Larson**

PROJECT NO.: **4-0119**

PROJECT NAME: **ERSU Wreld 187**

LAB. PO # **2**

RECEIVING LABORATORY: **ELT**

ADDRESS: **12600 W 1-20 E**

507 N. Marienfeld, Ste. 202 • Midland, TX 79701

STATE: **TX** ZIP: **79765**

CITY: **Odessa**

CONTACT: **Kelvin Turtl** PHONE: **(432) 563-1800**

LAB. ID. NUMBER (LAB USE ONLY)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

LAB. ID. NUMBER (LAB USE ONLY)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

RECEIVED BY: (Signature)

DATE: **7/7/06** TIME: **16:34**

RECEIVED BY: (Signature)

COPY

WHITE - RECEIVING LAB
YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK - PROJECT MANAGER
GOLD - QA/QC COORDINATOR

SAMPLE TYPE: **Soil**

LA CONTACT PERSON: **M. Larson**

402 glass 4.0 w/labels

CHAIN—OF—CUSTODY RECORD

PARAMETERS/METHOD NUMBER

CLIENT NAME: **XTO Energy, Inc**
 PROJECT NO.: **4-0117**
 SITE MANAGER: **Mark Larson**
 PROJECT NAME: **EMSU well 1187**

LA arson & ssociates, Inc. Fax: 432-687-0456
 Environmental Consultants 432-687-0901
 507 N. Marienfeld, Ste. 202 • Midland, TX 79701

LAB. I.D. NUMBER (LAB USE ONLY)
 REMARKS (I.E. FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E. FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
7/6/04	13:50		X		Background 25-26'	1		6507011-19	-20
	14:02				Background 30-31'	1			-21
	14:10				Background 35-36'	1			-22
	14:15				Background 40-41'	1			-23
	14:42				HB-8A, 10-11'	1			-24
	14:46				HB-8A, 15-16'	1			-25
	14:53				HB-8A, 20-21'	1			-26
	15:00				HB-8A, 26-26'	1			-27
	15:30				HB-15, 0-21'	1			-28
	15:35				HB-15, 5-6'	1			-29
	15:40				HB-15, 10-11'	1			-30
	15:45				HB-15, 15-16'	1			-31
	15:48				HB-15, 20-21'	1			-32
	15:55				HB-15, 25-26'	1			-33
	16:20				HB-9A, 20-21'	1			-34
	16:27				HB-9A, 25-26'	1			-35
	16:34				HB-9A, 30-31'	1			

RECEIVED BY: (Signature) DATE: TIME:

SAMPLE SHIPPED BY: (Circle) FEDEX ☒ HAND DELIVERED ☐ BUS ☐ UPS ☐ AIRBILL # ☐ OTHER: ☐

WHITE - RECEIVING LAB
 YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
 PINK - PROJECT MANAGER
 GOLD - QA/QC COORDINATOR

SAMPLE TYPE: **Soil**

RELINQUISHED BY: (Signature) DATE: TIME:

RECEIVED BY: (Signature) DATE: TIME:

TURNAROUND TIME NEEDED

LA CONTACT PERSON: **M. Larson**

SAMPLED BY: (Signature) DATE: 7/6/04 TIME: 16:34

RECEIVED BY: (Signature) DATE: 7/7/04 TIME: 11:10

RECEIVING LABORATORY: **Environmental Lab of Texas**
 ADDRESS: **12600 W 1-20 E**
 CITY: **Odessa** STATE: **TX** ZIP: **79715**
 CONTACT: **Robert Tuffe** PHONE: **(432) 563-1803**

SAMPLE CONDITION WHEN RECEIVED:

COPY

Environmental Lab of Texas
Variance / Corrective Action Report - Sample Log-In

Client: Larson
 Date/Time: 7/7/06 11:40
 Order #: 661705
 Initials: ck

COPY

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>	No	
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?	<input checked="" type="checkbox"/>	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/>	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/>	No	ID on lid
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/>	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/>	No	
Samples properly preserved?	<input checked="" type="checkbox"/>	No	
Sample bottles intact?	<input checked="" type="checkbox"/>	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/>	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/>	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: _____ Date/Time: _____ Contacted by: _____
 Regarding: _____

Corrective Action Taken:

Jeanne McMurrey

From: "Mark Larson" <mark@laenvironmental.com>
To: <jeanne@elabtexas.com>
Sent: Saturday, July 15, 2006 10:39 PM
Subject: Re: Additional Analysis, Report No. 6G07011

Jeanne: Please run the following sample for chloride:

HB-12, 40 to 41'

Also, I detected a typo in the report for sample 6G07011-21 (Background, 35-26'), which should be Background, 35 - 36'?

Thanks,
Mark

--

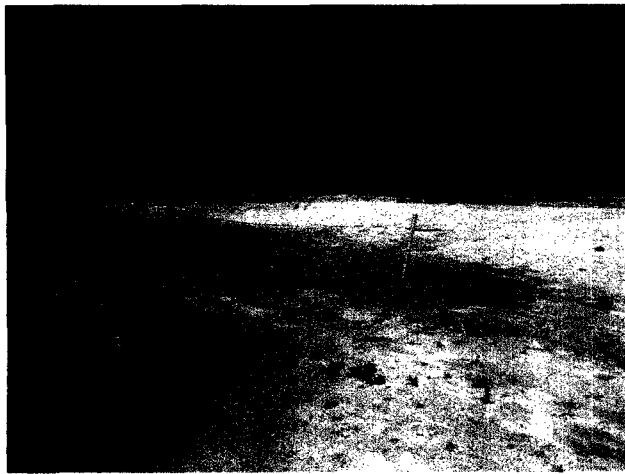
This message has been scanned for viruses and dangerous content by BasinBroadband, and is believed to be clean.

7/17/2006

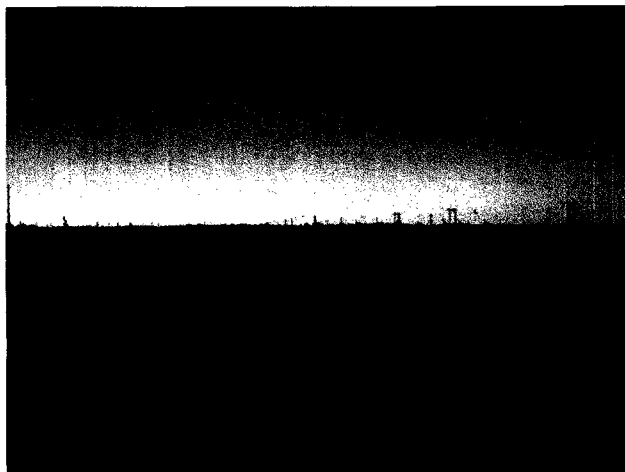
Appendix C

Photographs

EMSU # 187
NW/4, NW/4, SECTION 5, T-21-S, R-36-E
LEA COUNTY, NEW MEXICO



1. EMSU # 187 - looking north

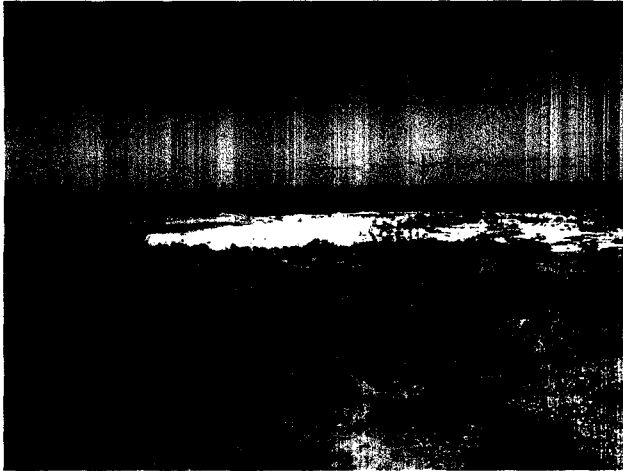


2. EMSU # 187 - looking south



3. EMSU # 187 - looking east

EMSU # 187
NW/4, NW/4, SECTION 5, T-21-S, R-36-E
LEA COUNTY, NEW MEXICO



4. EMSU # 187 - looking west



5. EMSU # 187 - wellhead



6. EMSU # 187 - looking west from
BH-11

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report ☐ Final Report ☒

Name of Company ChevronTexaco	Contact Danny Lovell
Address 2401 Ave "O" Eunice NM 88221	Telephone No. 505-394-1242
Facility Name EMSU #187	Facility Type WIW
Surface Owner Berta Tibbis	Mineral Owner
Lease No.	

LOCATION OF RELEASE

API# 30025045150000

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	5	21S	36E	654	NORTH	660	WEST	LEA

Latitude N32deg-31.225 Longitude W103deg-17.621

NATURE OF RELEASE

Type of Release PRODUCED WATER	Volume of Release 180BBLS	Volume Recovered 160BBLS
Source of Release WATER INJECTION LINE	Date and Hour of Occurrence 8/2/04 6:00am-5:00 pm	Date and Hour of Discovery 8/2/04-5:00 P.M.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? SYLVIA DICKEY	
By Whom? DANNY LOVELL	Date and Hour 10:00 A.M. 8/3/04	
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.*

LATERAL LINE GOING TO WELL IS 2" FIBERGLASS AND IS CONNECTED TO WELLHEAD WITH 1" STAINLESS STEEL TUBING. TRACKS AROUND WELLHEAD INDICATED THAT A COW RUBBED AGAINST 1" SS CAUSING IT TO PULL OUT OF 2" FIBERGLASS COUPLING. WELL WAS SHUT-IN AND FLUID VACUUMED UP THAT EVENING.

Describe Area Affected and Cleanup Action Taken.*

MAJORITY OF FLUID WAS CONTAINED ON WELL PAD WITH A 120'X3' STRIP GOING INTO PASTURE. STAINED SOIL WAS SCRAPED UP AND HAULED TO RHINO LAND FARM. DEPTH TO GROUNDWATER 180'. PER RE-SUBMIT NOTICE CHEVRONTXACO WILL REMOVE CONTAMINATED SOIL FROM RHINO AND HAULED TO SUNDANCE DISPOSAL BY 10/30/04. VERTICAL EXTENT OF CONTAMINATED AREA WAS NOT REQUESTED WHEN SPILL WAS CALLED IN. XTO PURCHASED PROPERTY FROM CHEVRON TEXACO 8/16/04. A COPY OF RE-SUBMIT NOTICE WAS GIVEN TO GUY HACKUS WITH XTO 10/27/04 WHO WILL FURNISH OTHER CLEAN UP REQUIRMENTS REQUESTED.

NOTE- LATE RESPONSE WAS DUE TO NOTICE JUST BEING RECEIVED RECENTLY.

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: *Danny Lovell*

Printed Name: DANNY LOVELL

OIL CONSERVATION DIVISION

Approved by District Supervisor: *11.20.04*

10/31/04
XTO BEGIN CLOSURE
RP# 1043

application - pPAC0627125515