

NPRS0431031135

1RP-1043

XTO Energy, Inc.

Closure

EUNICE MONUMENT

SOUTH UNIT WELL

#187

12/2/2019

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

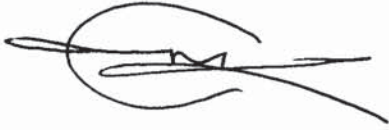
The following RRAL are assigned to the leak based on the total ranking score (0):

- **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 circular loop.

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 Uunit (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

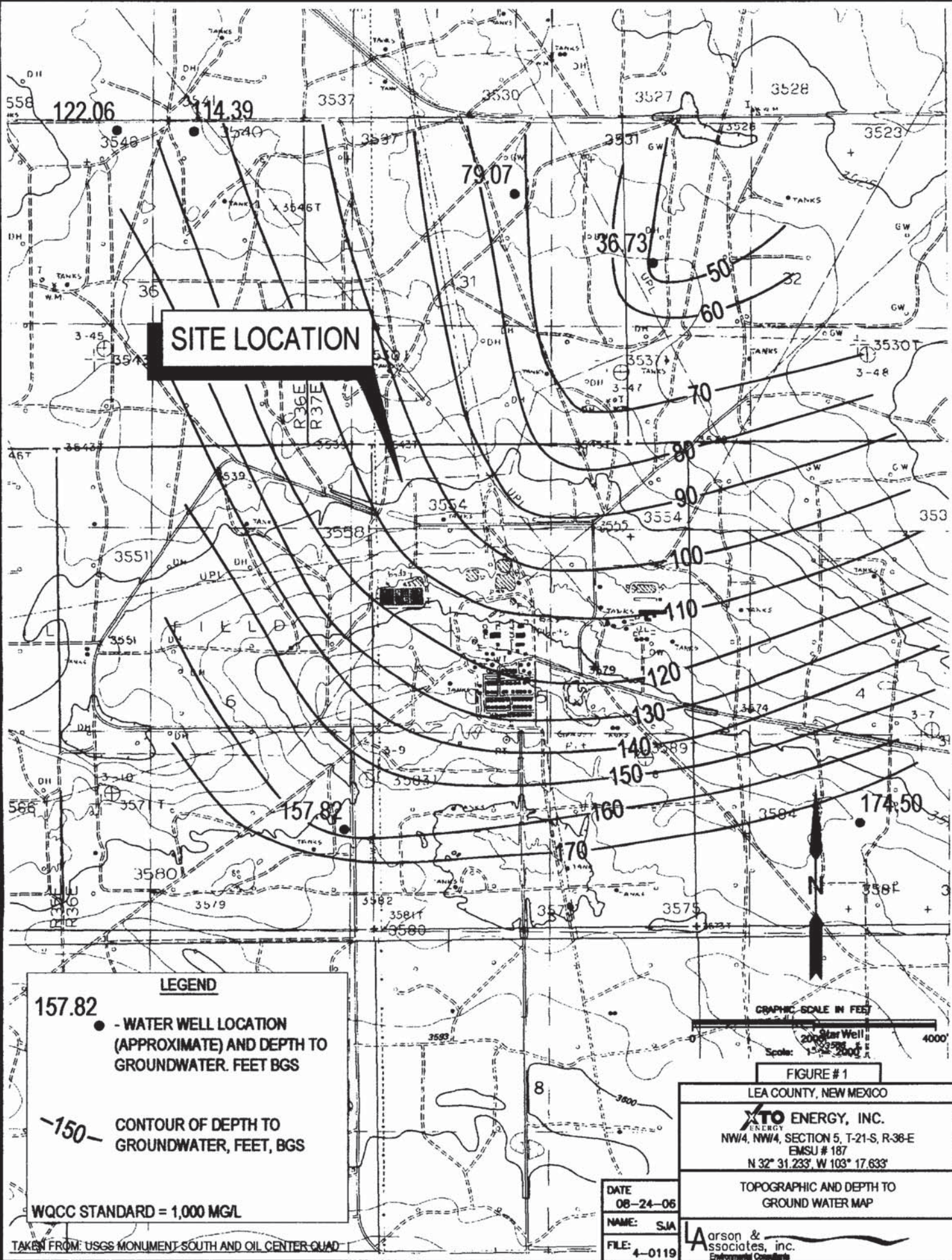
Page 3 of 3

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

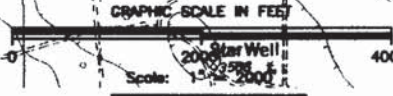


FIGURE #1

LEA COUNTY, NEW MEXICO

XTO ENERGY, INC.
 NW1/4, NW1/4, SECTION 5, T-21-S, R-38-E
 EMSU # 187
 N 32° 31.233', W 103° 17.633'

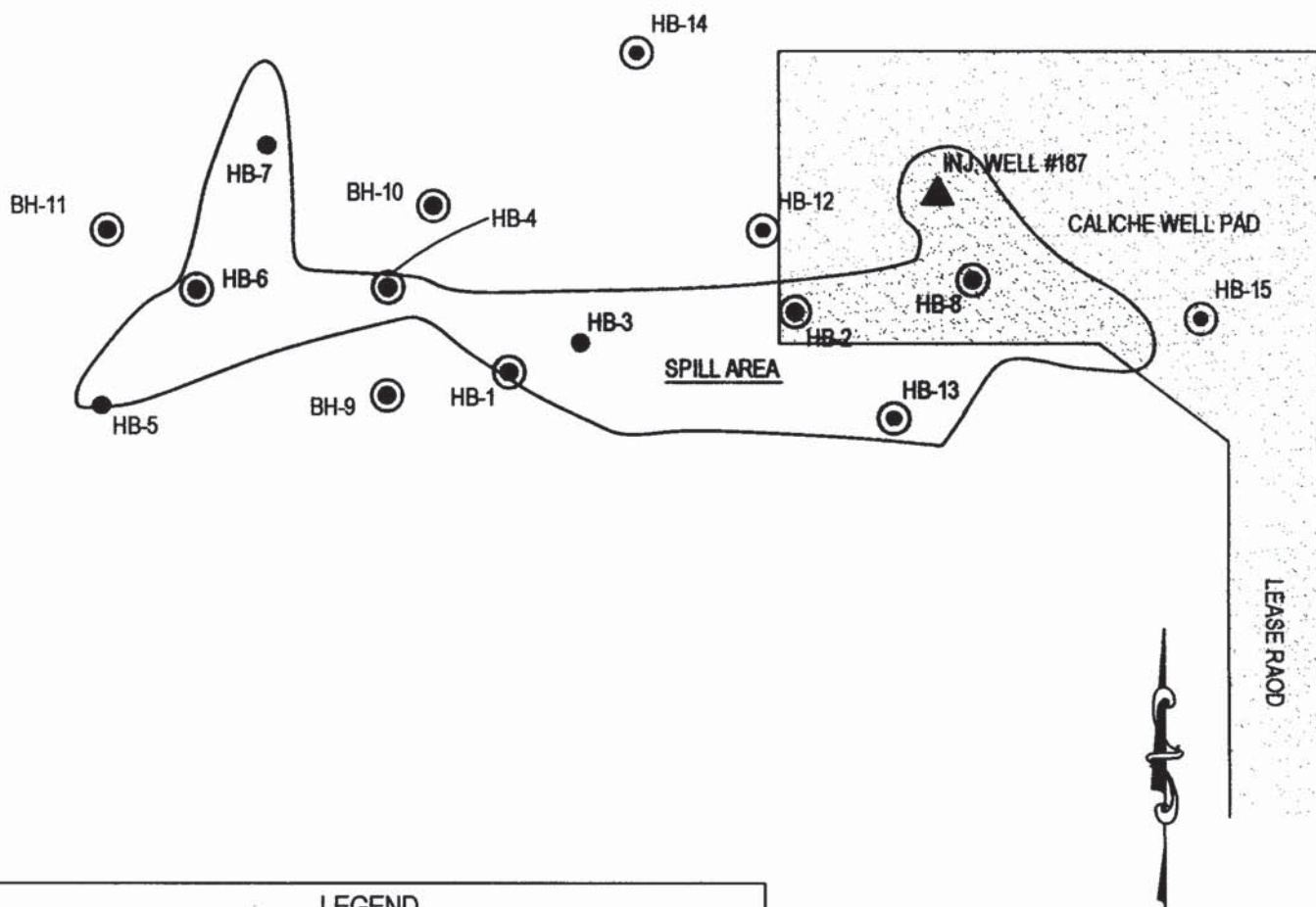
TOPOGRAPHIC AND DEPTH TO GROUND WATER MAP

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

Larson & Associates, Inc.
 PREPARED FOR: XTO ENERGY, INC.

TAKEN FROM: USGS MONUMENT SOUTH AND OIL CENTER QUAD

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					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: 75.7 mg/kg Chloride: 638 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					Depth: 1.00' - 2.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 808 mg/kg
5							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
10			1			0.8	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
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	2			0.0	
15							
20			3			0.5	
		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

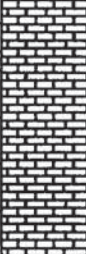
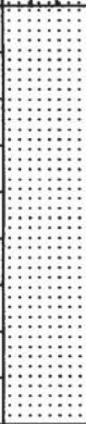
Project No: 4-0119

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					
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					Depth: 0.0' - 1.00' BGS (11/9/04) TPH: 107 mg/kg Chloride: 2800 mg/kg
		Caliche 10 YR 8/2, Very pale brown, indurated, dry	1				Depth: 1.00' - 2.00' BGS (11/9/04) TPH: 68 mg/kg Chloride: 1300 mg/kg
5							Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 1130 mg/kg
		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	2			0.3	Depth: 5.00' - 7.00' BGS (4/4/04) Chloride: 3470 mg/kg
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

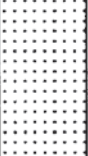
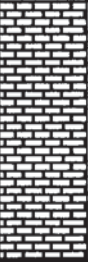
Project No: 4-0119

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					
10		Silty Sand 7.5 YR 6/4, Light brown quartz sand, very fine grained, poorly sorted, damp	1			0.3	
15			2			0.4	
20		Sand 5 YR 6/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp	3			0.3	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 553 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

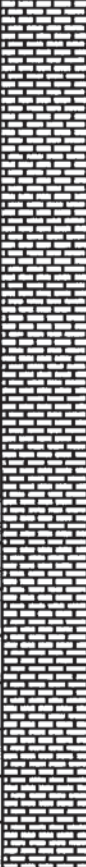
Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-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			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			0.2	Depth: 2.00' - 3.00' BGS (11/9/04) TPH: <20 mg/kg Chloride: 63.8 mg/kg
			3			0.0	Depth: 5.00' - 7.00' BGS (4/3/06) Chloride: 489 mg/kg
			4			0.0	Depth: 10.00' - 11.00' BGS (7/6/06) Chloride: 31.9 mg/kg
			5			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

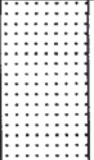
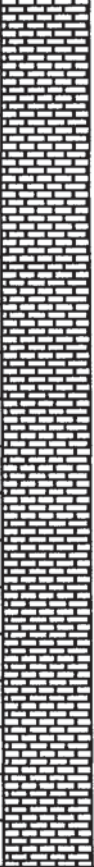
Project No: 4-0119

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					Depth: 0.0' - 2.00' BGS (12/22/04) Chloride: <20 mg/kg 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
		Sand 5 YR 4/4, Reddish brown quartz sand, fine grained, moderately well sorted					
		Caliche 10 YR 8/2, Very pale brown, indurated, dry					
10			1			0.0	
15			2			0.0	Depth: 10.00' - 12.00' BGS (4/3/06) Chloride: 117 mg/kg
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					
0		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

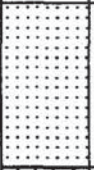
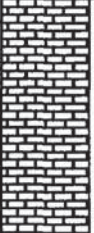
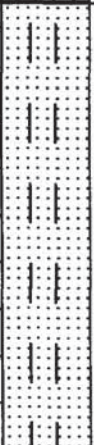
Project No: 4-0119

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
		Sand 5 YR 5/6, Yellowish red quartz sand, very fine grained, well sorted, loose, damp	4			0.0	
			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

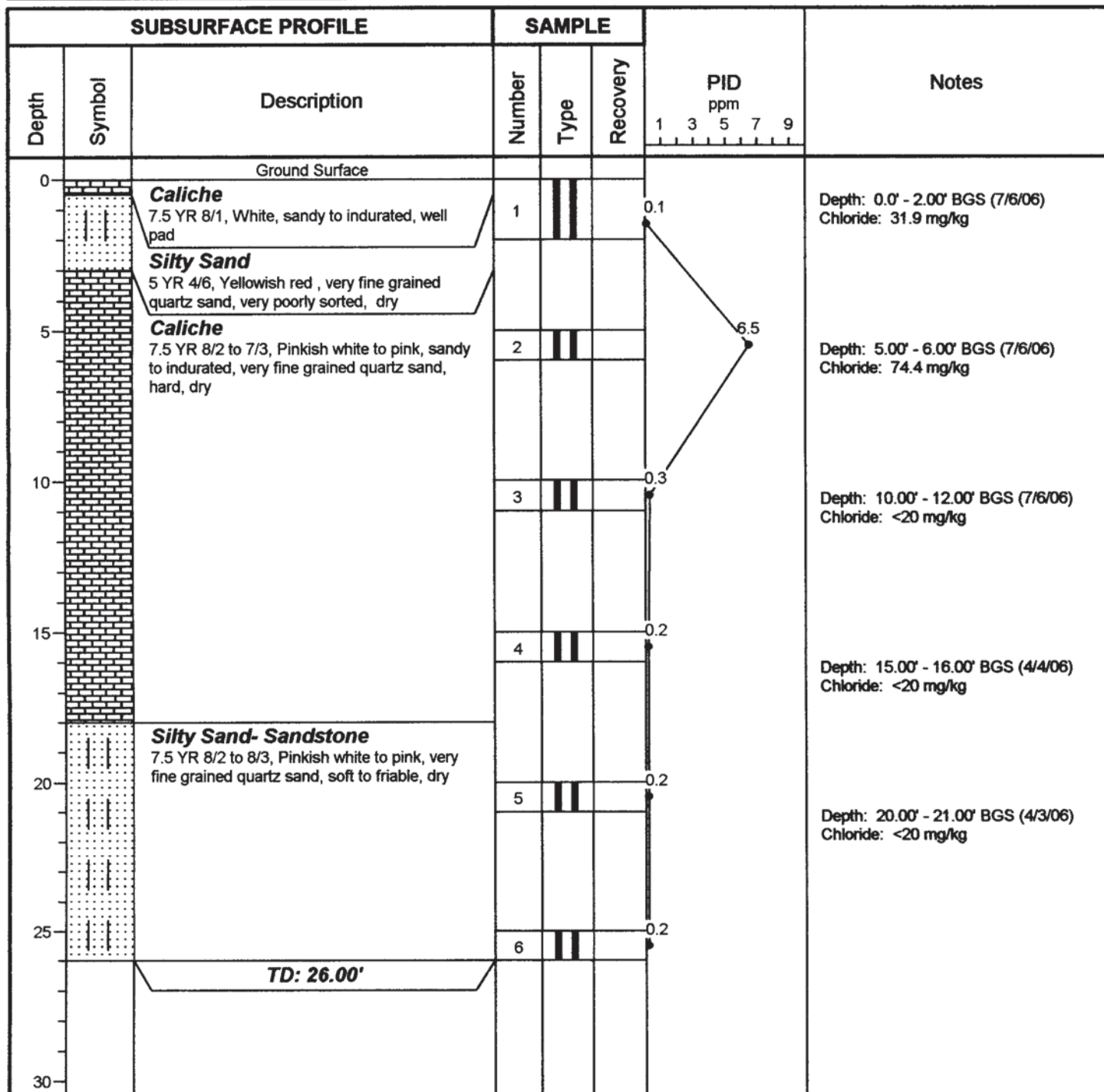
Project No: 4-0119

Location: Lea County, New Mexico

Log: HB-15

Page: 1 of 1

Geologist: M. Larson



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

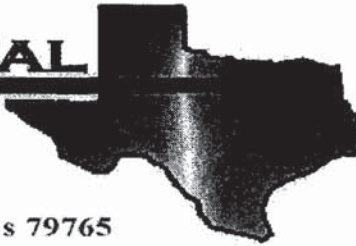
Elevation: N/A

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?	☒ Yes	No	15	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		
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:

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

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

LAB. I.D.
NUMBER
(LAB USE ONLY)

LAB. I.D.
NUMBER
(LAB USE ONLY)

LAB. I.D.
NUMBER
(LAB USE ONLY)

LAB. I.D.
NUMBER
(LAB USE ONLY)

PARAMETERS/METHOD NUMBER

NUMBER OF CONTAINERS

SITE MANAGER:

PROJECT NAME:

LAB. PO #

SAMPLE IDENTIFICATION

OTHER

SOIL

WATER

TIME

DATE

DATE

DATE

DATE:

TIME:

RECEIVED BY: (Signature)

DATE: 11/9/04
TIME: 1715

DATE: 11/9/04
TIME: 1715

RECEIVED BY: (Signature)

DATE: 11/9/04
TIME: 1730

DATE: 11/9/04
TIME: 1730

RECEIVED BY: (Signature)

DATE: 11/9/04
TIME: 1730

DATE: 11/9/04
TIME: 1730

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #:

UPS

OTHER:

WHITE - RECEIVING LAB

YELLOW - RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)

PINK - PROJECT MANAGER

GOLD - QA/QC COORDINATOR

TURNAROUND TIME NEEDED

RECEIVED BY: (Signature)

DATE: 11-09-04
TIME: 1715

STATE: TX
ZIP: 79765

CITY: Odessa
PHONE: 563-1800

RECEIVING LABORATORY: Env Lab of TX

ADDRESS: 12600 W I-20 E

CONTACT: Odessa

SAMPLE TYPE:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

4oz glass on ice

1.5°C

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

LA CONTACT PERSON:

CHAIN—OF—CUSTODY RECORD

LA arson & associates, Inc.
Environmental Consultants
507 N. Marientfeld, 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

NUMBER OF CONTAINERS

SITE MANAGER:

PROJECT NAME: *Weld #187*
LAB. PO #

SAMPLE IDENTIFICATION

OTHER

SOIL

WATER

TIME

DATE

DATE

DATE

DATE

DATE

DATE

CLIENT NAME:

XTD

PROJECT NO.: *2-0119*

PAGE *2* OF *2*

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

RECEIVED BY:

(Signature)

DATE: *11/19/04*

TIME: *1715*

RECEIVED BY: (Signature)

DATE: *11/19/04*

TIME: *1715*

RECEIVED BY: (Signature)

DATE: *11/19/04*

TIME: *1715*

RECEIVED BY: (Signature)

DATE: *11-09-04*

TIME: *1715*

COMMENTS:

RECEIVING LABORATORY: *Env. Lab of TX*

ADDRESS: *12600 W I-20 E*

CITY: *Odessa*

STATE: *TX*

ZIP: *79765*

PHONE: *563-4800*

CONTACT: *15°C*

SAMPLE CONDITION WHEN RECEIVED: *4oz glass on ice*

LA CONTACT PERSON: *Cindy Chasen*

RECEIVED BY: (Signature)

DATE: *11-09-04*

TIME: *1715*

RECEIVED BY:

(Signature)

DATE: *11/19/04*

TIME: *1715*

RECEIVED BY: (Signature)

DATE: *11/19/04*

TIME: *1715*

RECEIVED BY: (Signature)

DATE: *11/19/04*

TIME: *1715*

RECEIVED BY: (Signature)

DATE: *11-09-04*

TIME: *1715*

COMMENTS:

RECEIVING LABORATORY: *Env. Lab of TX*

ADDRESS: *12600 W I-20 E*

CITY: *Odessa*

STATE: *TX*

ZIP: *79765*

PHONE: *563-4800*

CONTACT: *15°C*

SAMPLE CONDITION WHEN RECEIVED: *4oz glass on ice*

LA CONTACT PERSON: *Cindy Chasen*

RECEIVED BY: (Signature)

DATE: *11-09-04*

TIME: *1715*

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.
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
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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 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

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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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 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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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:

Celey D. Keene Date: 12/28/04

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 5 of 5

CLIENT NAME: X10		SITE MANAGER: Mack Larson		PARAMETERS/METHOD NUMBER		CHAIN—OF—CUSTODY RECORD	
PROJECT NO.: 4-0119		PROJECT NAME: Wal #187		NUMBER OF CONTAINERS 1		Larson & Associates, Inc. Environmental Consultants 507 N. Marienfeld, Ste. 202 • Midland, TX 79701 Fax: 432-687-0456 432-687-0901	
PAGE 1 OF 1		LAB. PO #		REMARKS (LAB USE ONLY)		REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)	
DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	LAB. I.D. NUMBER	REMARKS
17/22	1449				BBH-1 4-6'	4123002-01	
	1449				BBH-1 6-8'	-02	
	1513				BBH-6 4-6'	-03	
	1513				BBH-6 6-8'	-04	
	1521				BBH-4 4-6'	-05	
	1540				BBH 0-2'	-06	
	1546				BBH-9 2-4'	-07	
	1551				BBH-9 4-6'	-08	
	1551				BBH-9 6-8'	-09	
	1607				BBH-10 0-2'	-10	
	1607				BBH-10 2-4'	-11	
	1618				BBH-10 4-6'	-12	
	1618				BBH-10 6-8'	-13	
	1630				BBH-11 0-2'	-14	
	1630				BBH-11 2-4'	-15	
	1630				BBH-11 4-6'	-16	
	1630				BBH-11 6-8'	-17	

SAMPLED BY: (Signature) [Signature]		DATE: 7/22/04 TIME: 1645		RELINQUISHED BY: (Signature) [Signature]		DATE: 7/22/04 TIME: 0815		RECEIVED BY: (Signature) [Signature]		DATE: _____ TIME: _____	
RELINQUISHED BY: (Signature) [Signature]		DATE: _____ TIME: _____		RECEIVED BY: (Signature) [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	
COMMENTS:											
RECEIVING LABORATORY: Environmental Lab of TX ADDRESS: 12600 W I-20E CITY: Odessa STATE: TX ZIP: 79765 CONTACT: _____ PHONE: 563-1800											
SAMPLE CONDITION WHEN RECEIVED: -0.5 °C 4oz glass on ice											
LA CONTACT PERSON: Mack Larson											

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?	☒ Yes	☐ No	-0.5 C
Shipping container/cooler in good condition?	☒ Yes	☐ No	N/A
Custody Seals intact on shipping container/cooler?	☒ Yes	☐ No	Not present NA
Custody Seals intact on sample bottles?	☒ Yes	☐ No	<u>(Not present)</u>
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	No labels - written on lid
Container labels legible and intact?	☒ Yes	☐ No	No labels - written on lid
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	<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 C</u>
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	

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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 4 of 4

CHAIN—OF—CUSTODY RECORD

LA arson & Associates, 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)
1005019-11	
1005019-20	
1005019-21	
1005019-22	
1005019-23	
1005019-24	
1005019-25	
1005019-26	
1005019-27	
1005019-28	
1005019-29	
1005019-30	
1005019-31	
1005019-32	
1005019-33	
1005019-34	
1005019-35	
1005019-36	

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: Soil

PARAMETERS/METHOD NUMBER

NUMBER OF CONTAINERS

CLIENT NAME: X-10
PROJECT NO.: 4 0119
SITE MANAGER: Corey Chan
PROJECT NAME: EMRI # 187
PAGE 2 OF 2
LAB. PO # _____

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION
4/2/06	14:20				HB-10A (10-12')
"	14:26				" (15-17')
"	14:31				" (20-22')
"	14:58				HB-4A (10-12')
"	15:02				" (15-17')
"	15:06				" (20-22')
4/4/06	09:20				HB-10A (10-12')
"	09:42				" (15-17')
"	09:48				" (20-22')
"	09:58				HB-12 (10-2')
"	10:04				" (15-17')
"	10:09				" (10-12')
"	10:15				" (15-17')
"	10:20				" (20-22')
"	10:31				HB-2A (5-7')
"	10:38				" (10-12')
"	10:47				" (15-17')
"	10:54				" (20-22')

SAMPLED BY: (Signature) _____ DATE: 4/4/06
TIME: 10:54
RELINQUISHED BY: (Signature) _____ DATE: 4/4/06
TIME: 10:54

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

TURNAROUND TIME NEEDED (_____) **COPY**

RECEIVING LABORATORY: F-L-01
ADDRESS: _____ RECEIVED BY: (Signature) _____
CITY: _____ STATE: _____ ZIP: _____ DATE: 4/4/06 TIME: 10:20
CONTACT: _____

LA CONTACT PERSON: C. Chan
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: 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

--

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

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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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	

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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

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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		

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Larson & Associates, Inc.
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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: 

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 Variance / Corrective Action Report – Sample Log-In

Client: Larson

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

Order #: WD05019

Initials: CL

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	45 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	ED on jar
Container labels legible and intact?	Yes	No	n/a
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:

Jeanne McMurrey

From: "Cindy Crain" <cindy@laenvironmental.com>
To: "Jeanne McMurrey" <jeanne@elabtxas.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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This message has been scanned for viruses and dangerous content by BasinBroadband, and is believed to be clean.

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		"	"	"	"	

Environmental Lab of Texas

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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-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

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-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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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-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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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-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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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
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		"	"	"	"	

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-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	

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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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of 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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Page 15 of 16

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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If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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Page 16 of 16

CHAIN—OF—CUSTODY RECORD

LA arson & Associates, 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

NUMBER OF CONTAINERS
 Chloride

SITE MANAGER: Cindy Crain

PROJECT NAME: EMSU # 187

LAB. PO #

SAMPLE IDENTIFICATION

CLIENT NAME: XTO

PROJECT NO.: 4-0119

PAGE 2 OF 2

DATE

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)
4/3/06	1420		✓		HB-6A (10-12')	1		605019-19	
"	1426		✓		" (15-17')	1		-20	
"	1431		✓		" (20-22')	1		-21	
"	1458		✓		HB-4A (10-12')	1		-22	
"	1502		✓		" (15-17')	1		-23	
"	1506		✓		" (20-22')	1		-24	
4/4/06	0936		✓		HB-10A (10-12')	1		-25	
"	0942		✓		" (15-17')	1		-26	
"	0948		✓		" (20-22')	1		-27	
"	0958		✓		HB-12 (0-2')	1		-28	
"	1004		✓		" (5-7')	1		-29	
"	1009		✓		" (10-12')	1		-30	
"	1015		✓		" (15-17')	1		-31	
"	1020		✓		" (20-22')	1		-32	
"	1031		✓		HB-2A (5-7')	1		-33	
"	1038		✓		" (10-12')	1		-34	
"	1047		✓		" (15-17')	1		-35	
"	1054		✓		" (20-22')	1		-36	

SAMPLED BY: (Signature) DATE: 4/4/06 RELINQUISHED BY: (Signature) DATE: 4/5/06 RECEIVED BY: (Signature) DATE: 4/5/06
 TIME: 10:54 TIME: 10:54 TIME: 12:20

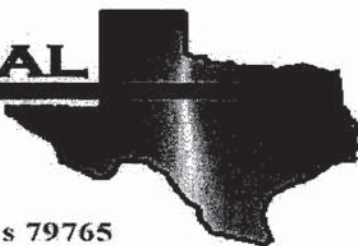
REINQUISHED BY: (Signature) DATE: TIME: SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS AIRBILL # OTHER:

COMMENTS: TURNAROUND TIME NEEDED

RECEIVING LABORATORY: ELOT RECEIVED BY: (Signature) DATE: 4/5/06 TIME: 12:20
 ADDRESS: STATE: ZIP: CITY: PHONE: CONTACT: LA CONTACT PERSON: C. Crain

SAMPLE CONDITION WHEN RECEIVED: 4.5 no label / no seal SAMPLE TYPE: Soil

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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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:
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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

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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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:
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

Jeanne McMurrey

From: "Cindy Crain" <cindy@laenvironmental.com>
To: "Jeanne McMurrey" <jeanne@elabtxas.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. Marlenfeld, 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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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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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	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

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			

Environmental Lab of Texas

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Page 6 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

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

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

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	

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

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 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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CHAIN-OF-CUSTODY RECORD

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

LAB. ID. 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	RECEIVED BY: (Signature)	DATE: TIME:	RECEIVED BY: (Signature)	DATE: TIME:	RECEIVED BY: (Signature)	DATE: TIME:
1/4/06	09:18				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							
	10:58				HB-14, 40-41'	1							
	13:26				backspand, 0-2'	1							
	13:30				backspand, 5-6'	1							
	13:34				backspand, 10-11'	1							
	13:36				backspand, 15-16'	1							
	13:43				backspand, 20-21'	1							

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

SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED WHITE YELLOW PINK GOLD SAMPLE TYPE: **Soil**

COMMENTS: **402 glass 410 w/labels**

RECEIVING LABORATORY: **ELT 1-20 E**
 ADDRESS: **12600 W**
 CITY: **Odessa TX**
 CONTACT: **Kelend Tuttle**
 STATE: **TX**
 PHONE: **(432) 583-1800**
 ZIP: **79765**
 RECEIVED BY: (Signature) DATE: TIME: **7/7/06 11:10**
 LA CONTACT PERSON: **M. Hansen**

SAMPLE CONDITION WHEN RECEIVED:

CLIENT NAME: _____

Mark Loren

PROJECT NAME:

EMSU 2211987

0

SAMPLE IDENTIFICATION

0

backspand 25.26

Backland 30-31'

Doc Good 35-36
B-6 a-1 44-41

11-01 25-971

11-21 15-12, 48-97H

H 6-8A, 20-21

44-8A, 26-261

48-15, 0-21

19-5, 51-67A

11-D, 5159A

191-51 51-99A

17-07, 20-15, 51-941

40-15, 63-66
112-9A, 79-711

44B-9A	25-76
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HB-9 A. 30-31'

11	11
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DATE: 7/6/06 RELINQUISHED

TIME: 165M

DATE: 1/1/04 TIME: 11:10 RECEIVED BY:

TIME: 11:30

10/20/2019 10:20 AM

02-1

STATE: TX ZIP: 75162
PHONE: (437) 563-1800

PHONE: 766-1111

100

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Larson

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

Order #: 6407011

Initials: ck

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	420 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	ED 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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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

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

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CHAIN-OF-CUSTODY RECORD

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

SITE MANAGER: **Monte Larson**

PROJECT NO.: **4-0119**

PROJECT NAME: **ERSU well #187**

LAB. PO # **2**

DATE: **1/10/06**

TIME: **09:18**

LAB. ID. NUMBER (LAB USE ONLY)

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

NUMBER OF CONTAINERS

PARAMETERS/METHOD NUMBER

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	LAB. ID. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
1/10/06	09:18		X		HB-12, 25-26'	6907611	-01
	09:30				HB-12, 30-31'		-02
	09:36				HB-12, 35-36'		-03
	09:45				HB-12, 40-41'	1061700501	-04
	10:10				HB-14, 0-2'		-05
	10:15				HB-14, 5-4'		-06
	10:20				HB-14, 10-11'		-07
	10:23				HB-14, 15-16'		-08
	10:29				HB-14, 20-21'		-09
	10:34				HB-14, 25-26'		-10
	10:40				HB-14, 30-31'		-11
	10:45				HB-14, 35-36'		-12
	10:53				HB-14, 40-41'		-13
	13:26				Background, 0-2'		-14
	13:30				Background, 5-8'		-15
	13:34				Background, 10-11'		-16
	13:36				Background, 15-16'		-17
	13:43				Background, 20-21'		-18

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

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

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

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

RECEIVING LABORATORY: **ELT**

ADDRESS: **17600 W 1-20 E**

CITY: **Overland Park**

STATE: **KS** ZIP: **66205**

PHONE: **(913) 543-1800**

RECEIVED BY: (Signature) _____ DATE: **7/7/06** TIME: **11:10**

RECEIVED BY: (Signature) _____ DATE: **7/7/06** TIME: **11:10**

RECEIVED BY: (Signature) _____ DATE: **7/7/06** TIME: **11:10**

RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)

PROJECT MANAGER

QA/QC COORDINATOR

SAMPLE TYPE: **Soil**

SAMPLE CONDITION WHEN RECEIVED: **402 glass 4.0 w/labels**

LA CONTACT PERSON: **M. Larson**

RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)

PROJECT MANAGER

QA/QC COORDINATOR

CLIENT NAME: XTO Energy, Inc		SITE MANAGER: Mark Larson		PARAMETERS/METHOD NUMBER										CHAIN—OF—CUSTODY RECORD	
PROJECT NO.: 41-0117		PROJECT NAME: EMSU Well 1187		NUMBER OF CONTAINERS										LABORATORY INFORMATION	
PAGE 2 OF 2		LAB. PO #												LAB. I.D. NUMBER (LAB USE ONLY)	
DATE		TIME		WATER		SOIL		OTHER		SAMPLE IDENTIFICATION		REMARKS (I.E. FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)			
1/6/04	3:50												607011-19		
	14:02												-20		
	14:10												-21		
	14:15												-22		
	14:42												-23		
	14:46												-24		
	14:53												-25		
	15:00												-26		
	15:30												-27		
	15:35												-28		
	15:40												-29		
	15:45												-30		
	15:48												-31		
	15:55												-32		
	16:20												-33		
	16:27												-34		
	16:34												-35		

SAMPLED BY: (Signature) <i>[Signature]</i>		DATE: 7/6/04		RELINQUISHED BY: (Signature)		DATE: 7/6/04		RECEIVED BY: (Signature)		DATE: 7/6/04		TIME: 16:34	
RELINQUISHED BY: (Signature) <i>[Signature]</i>		DATE: 7/7/04		RECEIVED BY: (Signature)		DATE: 7/7/04		RECEIVED BY: (Signature)		DATE: 7/7/04		TIME: 11:10	
COMMENTS: TURNAROUND TIME NEEDED													

RECEIVING LABORATORY: Environmental Lab of Texas		RECEIVED BY: (Signature) <i>[Signature]</i>	
ADDRESS: 12001 W 1-20 E		DATE: 7/7/04	
CITY: Odessa, TX		STATE: TX	
CONTACT: Robert Tottle		PHONE: (432) 563-1800	
SAMPLE CONDITION WHEN RECEIVED:		LA CONTACT PERSON: M. Larson	

SAMPLE TYPE: Soil	
--------------------------	--

COPY

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

Client: Larson
 Date/Time: 7/7/06 11:40
 Order #: 641705
 Initials: ck

COPY

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	ID 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:

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

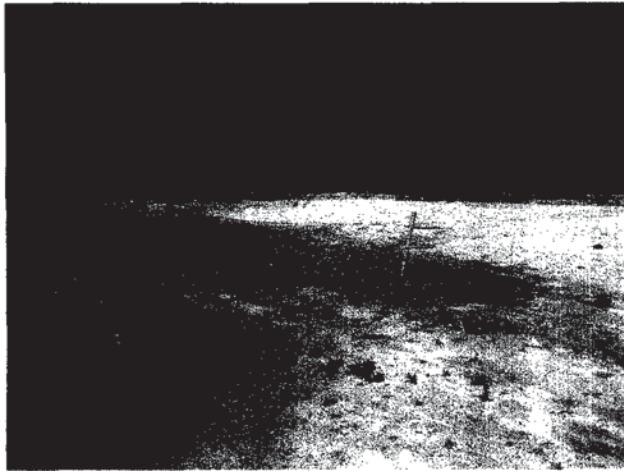
--

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

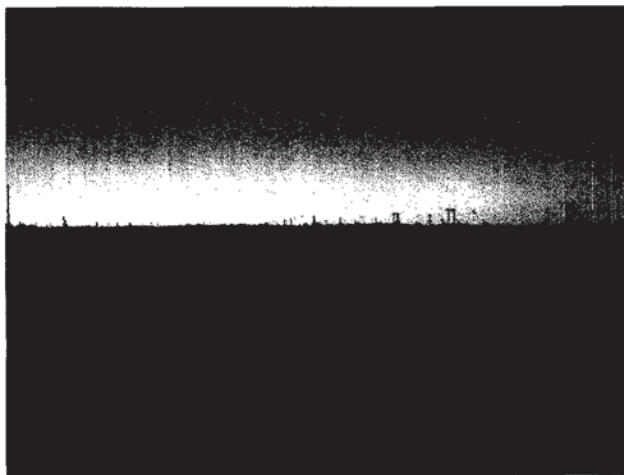
Appendix C

Photographs

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



1. EMSU # 187 - looking north

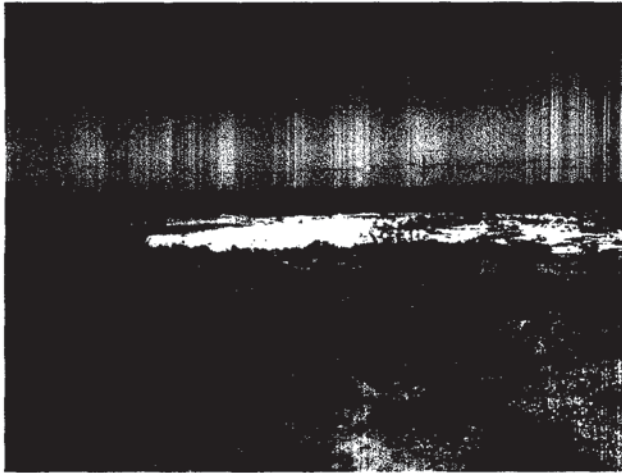


2. EMSU # 187 - looking south

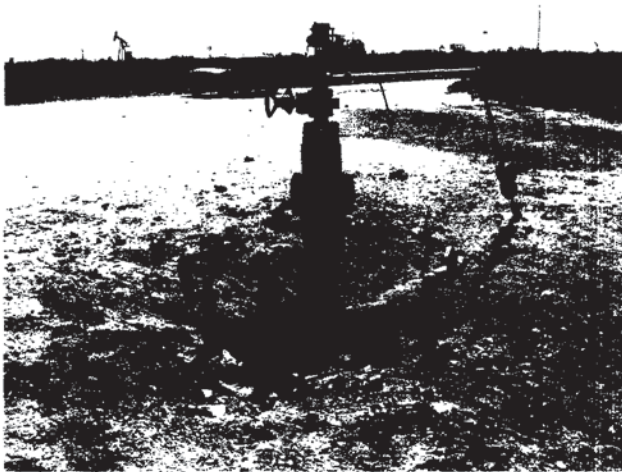


3. EMSU # 187 - looking east

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? ☒ Yes ☐ No ☐ 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? ☐ Yes ☒ 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 SCRAPPED 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 REQUIREMENTS 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: 	OIL CONSERVATION DIVISION 11.20.04 Approved by District Supervisor: 
Printed Name: DANNY LOVELL	10.31.04 XTO GAIN CLOSURE RP# 1043

application - pPAC0627125515