Larson & Associates, Inc.
Environmental Consultants

January 18, 2006

VIA EMAIL: Paul.Sheeley@state.nm.us
VIA CERTIFIED MAIL

Mr. Paul Sheeley
Environmental Engineer
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division District 1
1625 N. French Drive
Hobbs, New Mexico 88240

Re: Soil Sample Results and Remediation Work Plan, John H. Hendrix Corporation, Cardinal #1 Well (Plugged), Unit Letter G (SW/4, NE/4), Section 27, Township 19 South, Range 38 East, Lea County, New Mexico API# 30025 29793 0000

Dear Mr. Sheeley:

This letter is submitted to the New Mexico Oil Conservation Division ("OCD") on behalf of John H. Hendrix Corporation ("JHHC") by Larson and Associates, Inc. ("LA"), its agent, and transmits laboratory results of soil samples collected at the Cardinal #1 well ("Site") located in unit letter G ("SW/4, NE/4"), Section 27, Township 19 South, Range 38 East, in Lea County, New Mexico. The Site consists of the well (plugged) and a former tank battery that included two (2) aboveground tanks, circulating pump, separation equipment and gas meter. OCD inspected the Site during well plugging and requested JHHC to remediate soil that was visibly stained with petroleum hydrocarbons. Hydrocarbon staining was visible near the well and separation equipment. JHHC owns the Site and all equipment, except the gas meter, have been removed. A chain-link fence surrounds the Site and a locked gate is located near the northwest corner. The latitude and longitude for the Site is North 32° 37' 58.7" and West 103° 08' 01.17", respectively. Contact information is as follows:

Hendrix - 12024
Incidents - nPAC0605437043
Application - pPAC0605437099

John H. Hendrix Corporation
Mr. Marvin Burrows
Production Manager
1310 18th Street
Eunice, New Mexico 88231
(505) 394-2649

Figure 1 presents a location and topographic map. Figure 2 presents a Site drawing.

Current investigation

On December 15, 2005, LA personnel used a stainless steel hand auger to collect soil samples

at twelve (12) locations (HA-1 through HA-12), including the tanks (HA-1), circulating pump (HA-2), separation equipment (HA-3 through HA-11) and well (HA-12). Samples were collected in 1-foot increments until caliche was encountered between about 1 and 3 feet below ground surface ("bgs") and prevented further sampling. The hand auger was decontaminated between samples with a solution of laboratory-grade detergent and water and rinsed with distilled water. The samples were placed in 4-ounce glass sample jars, filled to near zero headspace, labeled, chilled in an ice chest and delivered under chain-of-custody control to Environmental Lab of Texas, Inc. ("ELTI"), located in Odessa, Texas. Duplicate samples were collected for headspace analysis by partially filling 8-ounce glass sample jars, covering the openings with a layer of aluminum foil before tightly securing the lids. The headspace samples were warmed to ambient temperature before the probe of a RAE Instruments Model 2000 photoionization detector ("PID"), calibrated to 100 parts per million ("ppm") of isobutylene, was inserted through the aluminum foil to record the concentration of hydrocarbon vapors in the sample headspace. Table 1 presents a summary of the PID readings. Figure 2 shows the sample locations.

Referring to Table 1, PID readings exceeded 100 ppm in samples HA-4, 0' to 1' (525 ppm), HA-4, 2' to 3' (151 ppm), HA-7, 0' to 1' (195 ppm), HA-10, 0' to 1' (2,292 ppm), HA-11, 0' to 1' (210 ppm) and HA-12, 0' to 1' (562 ppm). The laboratory analyzed these samples for benzene, toluene, ethyl benzene and xylene ("BTEX") using method SW-846-8021B. The laboratory analyzed all samples for total petroleum hydrocarbons ("TPH"), including gasoline range organics ("GRO") and diesel range organics ("DRO"), using method SW-846-8015 and chloride by method SW-846-300. Table 1 presents a summary of PID and laboratory analysis. Appendix A presents the laboratory report. Appendix B presents photographs.

Information from the State of New Mexico Office of the State Engineer ("OSE") indicates that ground water is approximately ~~48 feet bgs.~~ No wells or surface water are located within 1,000 feet of the Site. Recommended remediation action levels ("RRAL") were calculated based on criteria published by OCD ("Guidelines for Rmediation of Leaks, Spills and Releases, August 13, 1993"):

Ranking Criteria	Result	Ranking Score
Depth-to-Groundwater	<50 Feet	20
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		Total Score: 20

The following RRAL are assigned to the leak based on the total ranking score (20):

- **Benzene** **10 mg/kg**
- **Total BTEX** **50 mg/kg**
- **TPH** **100 mg/kg**

Conclusions

Benzene was below the RRAL, but BTEX exceeded the RRAL in sample HA-10, 0 to 1 foot

(167.18 mg/Kg). TPH exceeded the RRAL in the following samples:

Location	Sample	TPH (mg/Kg)
HA-3	0 to 1	1,590
HA-4	0 to 1	3,493
HA-4	1 to 2	1,422
HA-6	0 to 1	21,115
HA-7	0 to 1	22,110
HA-10	0 to 1	21,800
HA-11	0 to 1	33,240
HA-12	0 to 1	10,070

Chloride ranged from 17.6 mg/Kg (HA-5, 0 to 1 foot) to 1,130 mg/Kg (HA-6, 0 to 1 foot).

Remediation Plan

JHHC will excavate soil at locations were BTEX and TPH exceeds the RRAL, including HA-3, HA-4, HA-6, HA-7, HA-10, HA-11 and HA-12. Final samples will be collected from the excavations and analyzed for TPH by a laboratory using method SW-846-8015. Duplicated samples will be collected for headspace analysis, as described earlier, and any sample exhibiting a PID reading above 100 ppm will be analyzed for BTEX using method SW-846-8021B. The soil will be hauled to the JHHC surface waste management facility (NM-02-0021) located northwest of Jal, New Mexico and the excavations will be filled with clean soil.

A final report will be submitted to OCD within 45 days following receipt of the laboratory report and filling of excavations. OCD will be notified at least 48-hours before work is performed at the Site. Your approval of the remediation is requested. If you have questions, please call Mr. Marvin Burrows with JHHC at (505) 394-2649, myself at (432) 687-0901 or email: mburrows@valornet.com or Mark@LAEnvironmental.com.

Respectfully yours,

Larson & Associates, Inc.

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

Encl.

cc: Marvin Burrows/JHHC
Ron Westbrook/JHHC
Buddy Hill/OCD – Hobbs
Larry Johnson/OCD - Hobbs
Chris Williams/OCD – District 1
Roger Anderson/OCD – Santa Fe

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

February 23, 2006

Marvin Burrows/JHHC
John H. Hendrix Corp., (JHHC)
110 N. Marienfeld St., Ste. 400
Midland, TX 79701

Re: Cardinal #1 – Corrective Action Approval
Site Location: UL-G, Sec 27-T19S-R38E
Dated: January 18, 2006

Dear Mr. Burrows,

New Mexico Oil Conservation Division (OCD) received the corrective action plan prepared by Larson & Associates for JHHC and referenced above. The plan is **hereby approved** according to the information provided.

Please be advised that OCD approval of this plan does not relieve JHHC of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve JHHC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer
Cc: Wayne Price - Environmental Bureau Chief
Chris Williams - District I Supervisor
Larry Johnson - Environmental Engineer
Mark Larson - Larson & Associates

Tables

Table 1

Summary of Laboratory Analysis of Soil Samples

John H. Hendrix Corporation, Cardinal #1 Well Location (Plugged)

Unit Letter G (SW/4, NE/4), Section 27, Township 19 South, Range 38 East

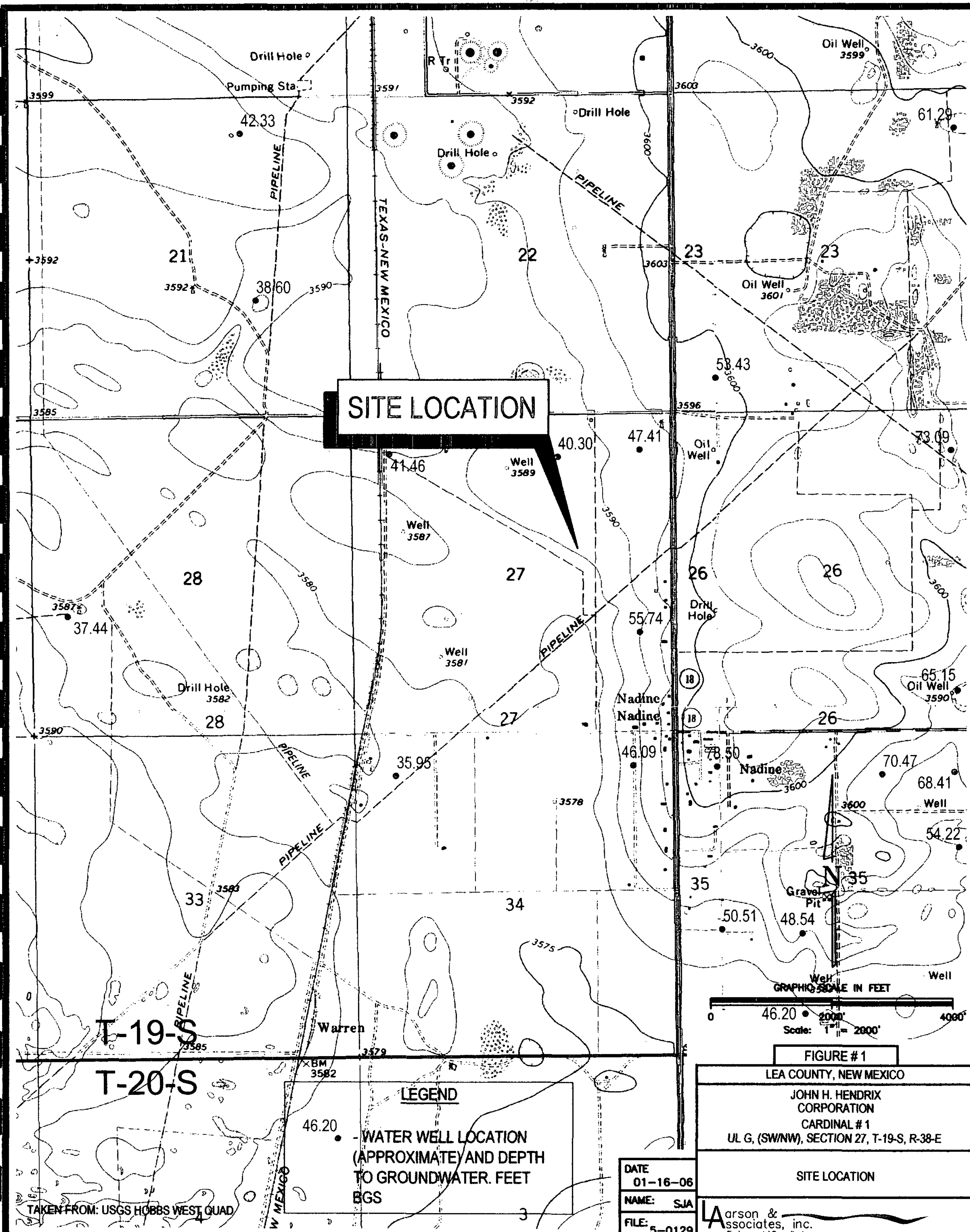
Lea County, New Mexico

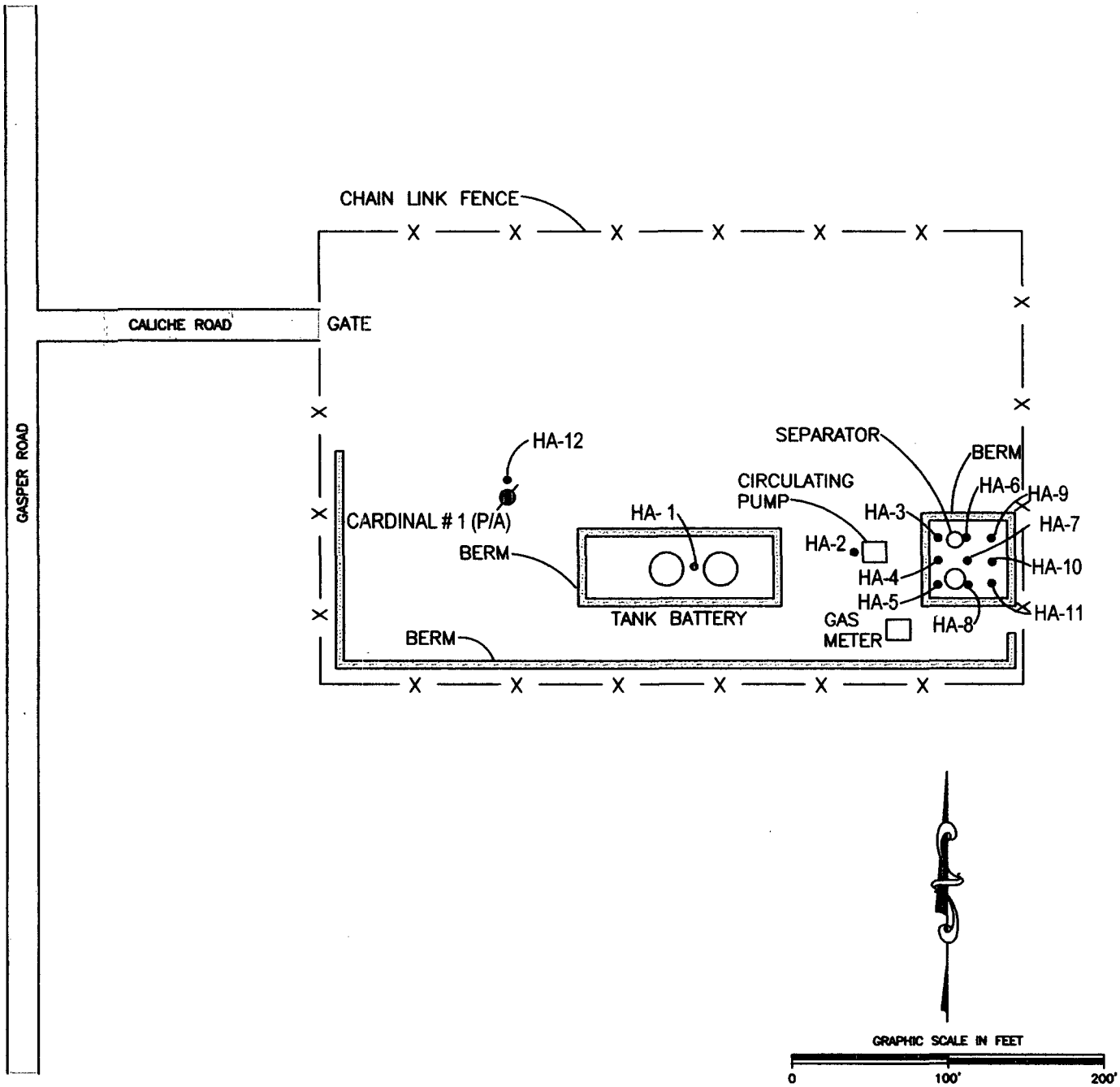
Date	Boring	Depth (Feet BGS)	PID (ppm)	Benzene (mg/Kg)	BTEX (mg/Kg)	GRO C6 - C12 (mg/Kg)	DRO >C12-C35 (mg/Kg)	TPH C6-C35 (mg/Kg)	Chloride (mg/Kg)
RRAL:				**10**	**50**			**1,000**	
12/15/05	HA-1	0 - 1	2.7	--	--	<10	<10	<20	18.3
12/15/05	HA-1	1 - 2	0.4	--	--	--	--	--	--
12/15/05	HA-1	2 - 3	0.1	--	--	--	--	--	--
12/15/05	HA-2	0 - 1	0.1	--	--	<10	<10	<20	34.3
12/15/05	HA-3	0 - 1	0.1	--		<10	1,590	1,590	242
12/15/05	HA-4	0 - 1	525	0.00846	1.50846	353	3,140	3,493	676
12/15/05	HA-4	1 - 2	22.5	--	--	12	1,410	1,422	957
12/15/05	HA-4	2 - 3	151	<0.025	0.2029	6.62	23.6	30.22	888
12/15/05	HA-5	0 - 1	0.1	--	--	<10	<10	<20	17.6
12/15/05	HA-6	0 - 1	5.7	--	--	15	21,100	21,115	1,130
12/15/05	HA-7	0 - 1	195	<0.025	0.9835	1,010	21,100	22,110	444
12/15/05	HA-8	0 - 1	4.1	--	--	<10	<10	<20	24.6
12/15/05	HA-9	0 - 1	1.9	--	--	<10	<10	<20	25.9
12/15/05	HA-10	0 - 1	2,292	7.58	167.18	6,600	15,200	21,800	24.8
12/15/05	HA-11	0 - 1	210	0.0353	6.7293	2,840	30,400	33,240	266
12/15/05	HA-12	0 - 1	562	0.166	37.636	2,310	2,310	10,070	79.5

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

1. BGS: Below ground surface
2. ppm: Parts per million
3. Mg/Kg: Milligrams per kilogram

Figures


SITE LOCATION
TEXAS-NEW MEXICO
PIPELINE
Drill Hole
Pumping Sta
Oil Well
Well
Nadine
Warren
Gravel Pit
T-19-S
T-20-S
21
22
23
26
27
28
33
34
35
42.33
38.60
37.44
41.46
40.30
47.41
53.43
55.74
35.95
46.09
78.50
70.47
68.41
54.22
65.15
73.09
61.29
50.51
48.54
GRAPHIC SCALE IN FEET
0
2000'
4000'
Scale: 1" = 2000'
LEGEND
46.20 • - WATER WELL LOCATION (APPROXIMATE) AND DEPTH TO GROUNDWATER. FEET BGS
TAKEN FROM: USGS HOBBS WEST QUAD
FIGURE # 1
LEA COUNTY, NEW MEXICO
JOHN H. HENDRIX CORPORATION
CARDINAL # 1
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E
SITE LOCATION
DATE 01-16-06
NAME: SJA
FILE: 5-0129
Larson & Associates, inc.
Environmental Consultants



GRAPHIC SCALE IN FEET

0 100' 200'

Scale: 1" = 100'

NOTE: ALL EQUIPMENT HAS BEEN REMOVED FROM LOCATION

LEGEND

HA-1 • SOIL SAMPLE LOCATION, DECEMBER 15, 2005

PLUGGED OIL WELL LOCATION

FIGURE # 2

LEA COUNTY, NEW MEXICO

JOHN H. HENDRIX CORPORATION

CARDINAL # 1

UL G, (SW/NW), SECTION 27, T-19-S, R-38-E

SITE DRAWING

DATE 01-16-06

NAME: SJA

FILE: 5-0129

Larson & Associates, inc. Environmental Consultants

Appendix A

Laboratory Report

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: Cardinal #1

Project Number: 5-0129

Location: Lea County, NM

Lab Order Number: 5L16002

Report Date: 12/21/05

Larson & Associates, Inc.	Project: Cardinal #1	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 5-0129	**Reported:**
Midland TX, 79710	Project Manager: Mark Larson	12/21/05 08:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-1 0-1'	5L16002-01	Soil	12/15/05 11:48	12/15/05 16:50
HA-2 0-1'	5L16002-04	Soil	12/15/05 12:05	12/15/05 16:50
HA-3 0-1'	5L16002-05	Soil	12/15/05 12:19	12/15/05 16:50
HA-4 0-1'	5L16002-06	Soil	12/15/05 12:30	12/15/05 16:50
HA-4 1-2'	5L16002-07	Soil	12/15/05 12:38	12/15/05 16:50
HA-4 2-3'	5L16002-08	Soil	12/15/05 12:42	12/15/05 16:50
HA-5 0-1'	5L16002-09	Soil	12/15/05 12:45	12/15/05 16:50
HA-6 0-1'	5L16002-10	Soil	12/15/05 12:55	12/15/05 16:50
HA-7 0-1'	5L16002-11	Soil	12/15/05 13:00	12/15/05 16:50
HA-8 0-1'	5L16002-12	Soil	12/15/05 13:05	12/15/05 16:50
HA-9 0-1'	5L16002-13	Soil	12/15/05 13:12	12/15/05 16:50
HA-10 0-1'	5L16002-14	Soil	12/15/05 13:15	12/15/05 16:50
HA-11 0-1'	5L16002-15	Soil	12/15/05 13:30	12/15/05 16:50
HA-12 0-1'	5L16002-16	Soil	12/15/05 13:42	12/15/05 16:50

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-1 0-1' (5L16002-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*102 %*	*70-130*		"	"	"	"	
HA-2 0-1' (5L16002-04) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*107 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*119 %*	*70-130*		"	"	"	"	
HA-3 0-1' (5L16002-05) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1590**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1590**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*165 %*	*70-130*		"	"	"	"	*S-04*
HA-4 0-1' (5L16002-06) Soil									
Benzene	**J [0.00846]**	0.0250	mg/kg dry	25	EL51627	12/16/05	12/18/05	EPA 8021B	J
Toluene	**0.111**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.380**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.638**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.371**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*131 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*165 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**353**	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**3140**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3490**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*117 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*195 %*	*70-130*		"	"	"	"	*S-04*

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-4 1-2' (5L16002-07) Soil									
Gasoline Range Organics C6-C12	**12.0**	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1410**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1420**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*138 %*	*70-130*		"	"	"	"	*S-04*
HA-4 2-3' (5L16002-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL51627	12/16/05	12/16/05	EPA 8021B	
Toluene	**0.0307**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0253**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.120**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0269**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*114 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [6.62]**	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**23.6**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**23.6**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*121 %*	*70-130*		"	"	"	"	
HA-5 0-1' (5L16002-09) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*117 %*	*70-130*		"	"	"	"	
HA-6 0-1' (5L16002-10) Soil									
Gasoline Range Organics C6-C12	**15.0**	10.0	mg/kg dry	1	EL51626	12/16/05	12/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	**21100**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**21100**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*16.9 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*15.9 %*	*70-130*		"	"	"	"	*S-06*

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-7 0-1' (5L16002-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EL51627	12/16/05	12/18/05	EPA 8021B	
Toluene	**0.0495**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.192**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.381**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.361**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*140 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**1010**	10.0	mg/kg dry	1	EL51626	12/16/05	12/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	**21100**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**22100**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*17.8 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*6.52 %*	*70-130*		"	"	"	"	*S-06*
HA-8 0-1' (5L16002-12) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL51626	12/16/05	12/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*91.0 %*	*70-130*		"	"	"	"	
HA-9 0-1' (5L16002-13) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL51626	12/16/05	12/19/05	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		*88.4 %*	*70-130*		"	"	"	"	
HA-10 0-1' (5L16002-14) Soil									
Benzene	**7.58**	0.200	mg/kg dry	200	EL51627	12/16/05	12/16/05	EPA 8021B	
Toluene	**36.3**	0.200	"	"	"	"	"	"	
Ethylbenzene	**46.7**	0.200	"	"	"	"	"	"	
Xylene (p/m)	**56.1**	0.200	"	"	"	"	"	"	
Xylene (o)	**20.5**	0.200	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*908 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*137 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**6600**	10.0	mg/kg dry	1	EL51626	12/16/05	12/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	**15200**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**21800**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-10 0-1' (5L16002-14) Soil									
Surrogate: 1-Chlorooctane		*49.6 %*	*70-130*		*EL51626*	*12/16/05*	*12/19/05*	*EPA 8015M*	*S-06*
Surrogate: 1-Chlorooctadecane		*64.8 %*	*70-130*		"	"	"	"	*S-06*
HA-11 0-1' (5L16002-15) Soil									
Benzene	**0.0353**	0.0250	mg/kg dry	25	EL51627	12/16/05	12/16/05	EPA 8021B	
Toluene	**0.544**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**1.46**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**2.89**	0.0250	"	"	"	"	"	"	
Xylene (o)	**1.80**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*156 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*170 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**2840**	10.0	mg/kg dry	1	EL51626	12/16/05	12/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	**30400**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**33200**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*31.6 %*	*70-130*		"	"	"	"	*S-06*
Surrogate: 1-Chlorooctadecane		*12.3 %*	*70-130*		"	"	"	"	*S-06*
HA-12 0-1' (5L16002-16) Soil									
Benzene	**0.166**	0.100	mg/kg dry	100	EL51627	12/16/05	12/18/05	EPA 8021B	
Toluene	**3.33**	0.100	"	"	"	"	"	"	
Ethylbenzene	**11.6**	0.100	"	"	"	"	"	"	
Xylene (p/m)	**16.1**	0.100	"	"	"	"	"	"	
Xylene (o)	**6.44**	0.100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*206 %*	*80-120*		"	"	"	"	*S-04*
Surrogate: 4-Bromofluorobenzene		*110 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**2310**	10.0	mg/kg dry	1	EL51626	12/16/05	12/18/05	EPA 8015M	
Diesel Range Organics >C12-C35	**7760**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**10100**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*188 %*	*70-130*		"	"	"	"	*S-04*
Surrogate: 1-Chlorooctadecane		*242 %*	*70-130*		"	"	"	"	*S-04*

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-1 0-1' (5L16002-01) Soil									
Chloride	**18.3**	5.00	mg/kg	10	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**9.6**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-2 0-1' (5L16002-04) Soil									
Chloride	**34.3**	5.00	mg/kg	10	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**10.4**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-3 0-1' (5L16002-05) Soil									
Chloride	**242**	10.0	mg/kg	20	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**14.7**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-4 0-1' (5L16002-06) Soil									
Chloride	**676**	20.0	mg/kg	40	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**15.7**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-4 1-2' (5L16002-07) Soil									
Chloride	**957**	20.0	mg/kg	40	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**13.8**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-4 2-3' (5L16002-08) Soil									
Chloride	**888**	20.0	mg/kg	40	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**14.5**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-5 0-1' (5L16002-09) Soil									
Chloride	**17.6**	5.00	mg/kg	10	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**8.7**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-6 0-1' (5L16002-10) Soil									
Chloride	**1130**	20.0	mg/kg	40	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-7 0-1' (5L16002-11) Soil									
Chloride	**444**	10.0	mg/kg	20	EL52102	12/20/05	12/21/05	EPA 300.0	
% Moisture	**12.3**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-8 0-1' (5L16002-12) Soil									
Chloride	**24.6**	5.00	mg/kg	10	EL52103	12/20/05	12/21/05	EPA 300.0	
% Moisture	**7.8**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-9 0-1' (5L16002-13) Soil									
Chloride	**25.9**	5.00	mg/kg	10	EL52103	12/20/05	12/21/05	EPA 300.0	
% Moisture	**8.4**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-10 0-1' (5L16002-14) Soil									
Chloride	**24.8**	5.00	mg/kg	10	EL52103	12/20/05	12/21/05	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-11 0-1' (5L16002-15) Soil									
Chloride	**266**	10.0	mg/kg	20	EL52103	12/20/05	12/21/05	EPA 300.0	
% Moisture	**13.1**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	
HA-12 0-1' (5L16002-16) Soil									
Chloride	**79.5**	5.00	mg/kg	10	EL52103	12/20/05	12/21/05	EPA 300.0	
% Moisture	**8.3**	0.1	%	1	EL51902	12/16/05	12/19/05	% calculation	

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 EL51626 - Solvent Extraction (GC)										
Blank (EL51626-BLK1)				Prepared: 12/16/05 Analyzed: 12/18/05						
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	*49.8*		*mg/kg*	*50.0*		*99.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.9*		*"*	*50.0*		*102*	*70-130*			
LCS (EL51626-BS1)				Prepared: 12/16/05 Analyzed: 12/18/05						
Gasoline Range Organics C6-C12	430	10.0	mg/kg wet	500		86.0	75-125			
Diesel Range Organics >C12-C35	474	10.0	"	500		94.8	75-125			
Total Hydrocarbon C6-C35	904	10.0	"	1000		90.4	75-125			
Surrogate: 1-Chlorooctane	*53.3*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.7*		*"*	*50.0*		*115*	*70-130*			
Calibration Check (EL51626-CCV1)				Prepared: 12/16/05 Analyzed: 12/18/05						
Gasoline Range Organics C6-C12	448		mg/kg	500		89.6	80-120			
Diesel Range Organics >C12-C35	492		"	500		98.4	80-120			
Total Hydrocarbon C6-C35	940		"	1000		94.0	80-120			
Surrogate: 1-Chlorooctane	*55.4*		*"*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*57.5*		*"*	*50.0*		*115*	*70-130*			
Matrix Spike (EL51626-MS1)	**Source: 5L16007-01**			Prepared: 12/16/05 Analyzed: 12/18/05						
Gasoline Range Organics C6-C12	509	10.0	mg/kg dry	599	ND	85.0	75-125			
Diesel Range Organics >C12-C35	604	10.0	"	599	ND	101	75-125			
Total Hydrocarbon C6-C35	1110	10.0	"	1200	ND	92.5	75-125			
Surrogate: 1-Chlorooctane	*54.3*		*mg/kg*	*50.0*		*109*	*70-130*			
Surrogate: 1-Chlorooctadecane	*58.8*		*"*	*50.0*		*118*	*70-130*			
Matrix Spike Dup (EL51626-MSD1)	**Source: 5L16007-01**			Prepared: 12/16/05 Analyzed: 12/18/05						
Gasoline Range Organics C6-C12	516	10.0	mg/kg dry	599	ND	86.1	75-125	1.37	20	
Diesel Range Organics >C12-C35	566	10.0	"	599	ND	94.5	75-125	6.50	20	
Total Hydrocarbon C6-C35	1080	10.0	"	1200	ND	90.0	75-125	2.74	20	
Surrogate: 1-Chlorooctane	*58.9*		*mg/kg*	*50.0*		*118*	*70-130*			
Surrogate: 1-Chlorooctadecane	*58.5*		*"*	*50.0*		*117*	*70-130*			

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 EL51627 - EPA 5030C (GC)										
Blank (EL51627-BLK1)				Prepared & Analyzed: 12/16/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*35.2*		*ug/kg*	*40.0*		*88.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.1*		*"*	*40.0*		*103*	*80-120*			
LCS (EL51627-BS1)				Prepared & Analyzed: 12/16/05						
Benzene	0.0434	0.00100	mg/kg wet	0.0500		86.8	80-120			
Toluene	0.0528	0.00100	"	0.0500		106	80-120			
Ethylbenzene	0.0580	0.00100	"	0.0500		116	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0595	0.00100	"	0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.6*		*ug/kg*	*40.0*		*91.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.6*		*"*	*40.0*		*114*	*80-120*			
Calibration Check (EL51627-CCV1)				Prepared: 12/16/05 Analyzed: 12/17/05						
Benzene	0.0416		mg/kg wet	0.0500		83.2	80-120			
Toluene	0.0461		"	0.0500		92.2	80-120			
Ethylbenzene	0.0441		"	0.0500		88.2	80-120			
Xylene (p/m)	0.0896		"	0.100		89.6	80-120			
Xylene (o)	0.0453		"	0.0500		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.1*		*ug/kg*	*40.0*		*87.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.4*		*"*	*40.0*		*83.5*	*80-120*			
Matrix Spike (EL51627-MS1)		**Source: 5L16007-06**		Prepared: 12/16/05 Analyzed: 12/17/05						
Benzene	1.12	0.0250	mg/kg dry	1.38	ND	81.2	80-120			
Toluene	1.34	0.0250	"	1.38	0.0132	96.1	80-120			
Ethylbenzene	1.46	0.0250	"	1.38	0.0173	105	80-120			
Xylene (p/m)	2.90	0.0250	"	2.76	0.0475	103	80-120			
Xylene (o)	1.43	0.0250	"	1.38	ND	104	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.0*		*ug/kg*	*40.0*		*87.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.5*		*"*	*40.0*		*126*	*80-120*			*S-04*

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 EL51627 - EPA 5030C (GC)										
Matrix Spike Dup (EL51627-MSD1)	**Source: 5L16007-06**			Prepared: 12/16/05	Analyzed: 12/17/05					
Benzene	1.13	0.0250	mg/kg dry	1.38	ND	81.9	80-120	0.858	20	
Toluene	1.31	0.0250	"	1.38	0.0132	94.0	80-120	2.21	20	
Ethylbenzene	1.49	0.0250	"	1.38	0.0173	107	80-120	1.89	20	
Xylene (p/m)	2.99	0.0250	"	2.76	0.0475	107	80-120	3.81	20	
Xylene (o)	1.43	0.0250	"	1.38	ND	104	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*38.4*		*ug/kg*	*40.0*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.8*		*"*	*40.0*		*107*	*80-120*			

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 EL51902 - General Preparation (Prep)										
Blank (EL51902-BLK1)				Prepared: 12/16/05 Analyzed: 12/19/05						
% Solids	100		%							
Duplicate (EL51902-DUP1)		**Source: 5L16001-01**		Prepared: 12/16/05 Analyzed: 12/19/05						
% Solids	96.5		%		95.8			0.728	20	
Duplicate (EL51902-DUP2)		**Source: 5L16002-09**		Prepared: 12/16/05 Analyzed: 12/19/05						
% Solids	90.7		%		91.3			0.659	20	
Duplicate (EL51902-DUP3)		**Source: 5L16007-03**		Prepared: 12/16/05 Analyzed: 12/19/05						
% Solids	91.8		%		91.7			0.109	20	
Batch EL52102 - Water Extraction										
Blank (EL52102-BLK1)				Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	ND	0.500	mg/kg							
LCS (EL52102-BS1)				Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	8.33		mg/L	10.0		83.3	80-120			
Calibration Check (EL52102-CCV1)				Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	8.46		mg/L	10.0		84.6	80-120			
Duplicate (EL52102-DUP1)		**Source: 5L15002-01**		Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	94.9	5.00	mg/kg		92.0			3.10	20	
Batch EL52103 - Water Extraction										
Blank (EL52103-BLK1)				Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	ND	0.500	mg/kg							

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 EL52103 - Water Extraction										
LCS (EL52103-BS1)				Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	8.22		mg/L	10.0		82.2	80-120			
Calibration Check (EL52103-CCV1)				Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	8.35		mg/L	10.0		83.5	80-120			
Duplicate (EL52103-DUP1)		**Source: 5L20004-01**		Prepared: 12/20/05 Analyzed: 12/21/05						
Chloride	391	5.00	mg/kg		418			6.67	20	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 12-27-05

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

Jeanne Mc Murrey, Inorg. Tech Director
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Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mark Larson
Company Name: Larson and Associates, Inc.
Company Address: 507 N. Marienfeld St., Ste 202
City/State/Zip: Midland, Tx 79701
Telephone No: (432) 687-0901 Fax No: (432) 687-0456
Sampler Signature:
Email: mark@LAEnvironmental.com

Project Name: Cardinal #1
Project #: 5-0129
Project Loc: Lea County, NM
PO #:

Page 1 of 2

FL16002

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	TOTAL: TPH: 418.1 / 8015M / 1005 / 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO_4, CO_3, HCO_3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B / 5030 or BTEX 8260	RCI	N.O.R.M.					Hold	RUSH TAT (Pre-Schedule)	Standard TAT
-01	HA-1, 0-1'	12/15/05	11:48	1	✓									✓		✓			✓													
-02	" 1-2'	"	11:53	1	✓									✓		✓			✓												✓	
-03	" 2-3'	"	11:58	1	✓									✓		✓			✓												✓	
-04	HA-2, 0-1'	"	12:05	1	✓									✓		✓			✓													
-05	HA-3, 0-1'	"	12:19	1	✓									✓		✓			✓				✓									
-06	HA-4, 0-1'	"	12:30	1	✓									✓		✓			✓													
-07	" 1-2'	"	12:38	1	✓									✓		✓			✓													
-08	" 2-3'	"	12:42	1	✓									✓		✓			✓				✓									
-09	HA-5 0-1	"	12:45	1	✓									✓		✓			✓													
-10	HA-6 0-1	"	12:55	1	✓									✓		✓			✓													

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? (Y) N
Custody Seals: Containers / Cooler —
Temperature Upon Receipt: 2.5 °C

Laboratory Comments: 402

Relinquished by:	Date	Time	Received by:	Date	Time
	12/15/05	3:00	Steve Walker	12/15	3:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	12/15	4:50		12/15/05	4:50

Environmental Lab of Texas

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Mark Larson
Company Name: Larson and Associates, Inc.
Company Address: 507 N. Marienfeld St, Suite 202
City/State/Zip: Midland, Tx 79701
Telephone No: 687-0901 Fax No: 687-0456
Sampler Signature:
Email: mark@LAEnvironmental

Project Name: Cardinal #1
Project #: 5-0129
Project Loc: Lea County, NM
PO #:

LAB # (lab use only) 516002	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	Analyze For: TCLP/TOTAL: TPH: 418.1 / 8015M / 1005 / 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule)	Standard TAT
-11	NA-7, 0-1'	12-15-05	13:00	1	✓									✓		✓		✓				✓	✓				
-12	NA-8, 0-1'	"	13:05	1	✓									✓		✓		✓					✓				
-13	NA-9, 0-1'	"	13:12	1	✓									✓		✓		✓					✓				
-14	NA-10, 0-1'	"	13:15	1	✓									✓		✓		✓				✓	✓				
-15	NA-11, 0-1'	"	13:30	1	✓									✓		✓		✓				✓	✓				
-16	NA-12, 0-1'	"	13:42	1	✓									✓		✓		✓					✓				

Special Instructions:

Sample Containers Intact? Y (N)
Labels on container? Y (N)
Custody Seals: Containers / Cooler —
Temperature Upon Receipt:
Laboratory Comments: 2.5°C

402

Relinquished by:	Date	Time	Received by:	Date	Time
	12/15/05	3:00		12/15	3:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	12/15	4:50		12/15/05	4:50

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

Client: Larson

Date/Time: 12/15/05 9:50

Order #: 5L160

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2.5 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	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:

* sample time discrepancy on HA-601 see attached e-mail

Variance Documentation:

Contact Person: Mark Larson Date/Time: 12-16-05 @ 0943 Contacted by: Jeanne McMurry

Regarding:

* see above

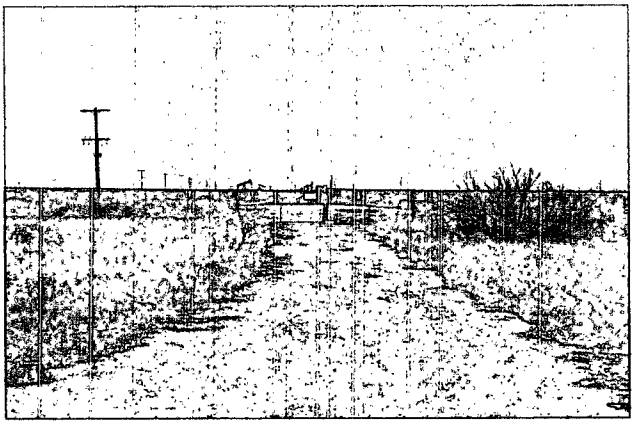
Corrective Action Taken:

* see attached e-mail reference COC time

Appendix B

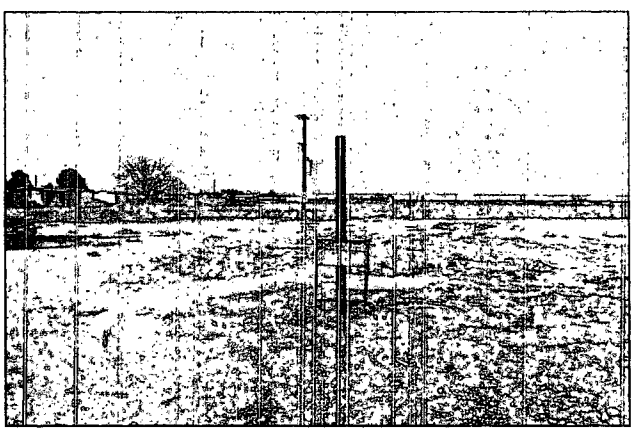
Photographs

CARDINAL # 1
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E
LEA COUNTY, NEW MEXICO



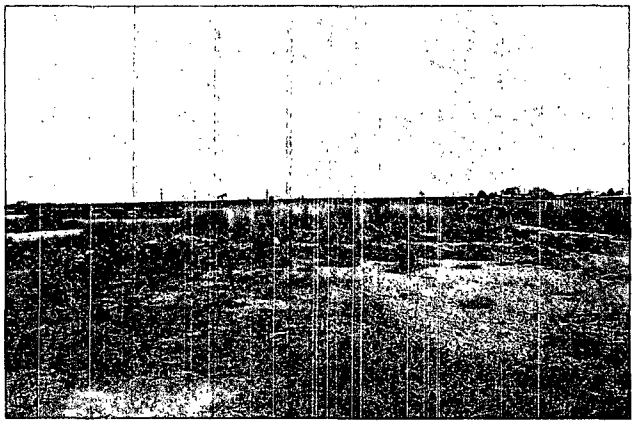
1. Cardinal #1 - Entrance Near Northwest Corner of Location

2. Cardinal #1 Well Sign

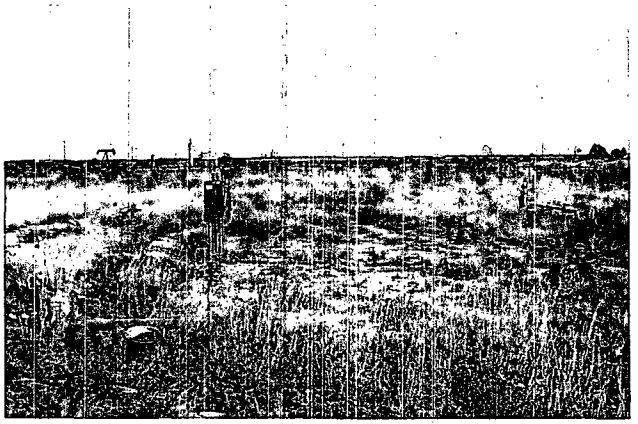


3. Cardinal #1 Well Location

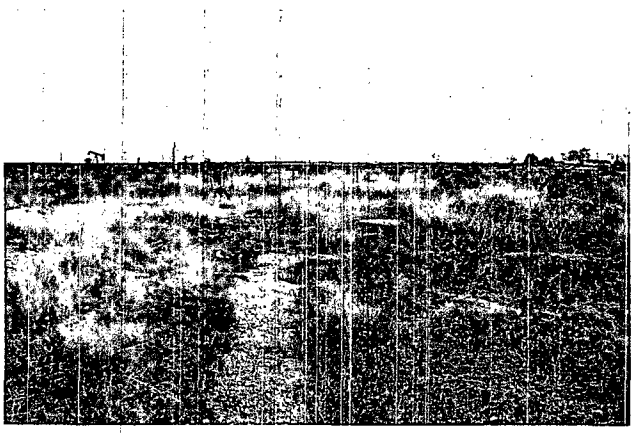
CARDINAL # 1
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E
LEA COUNTY, NEW MEXICO



4. Cardinal #1 - Tank Battery Location



5. Cardinal #1 - Circulating Pump and Gas Meter



6. Cardinal #1 - Separation Equipment Area

CARDINAL # 1
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E
LEA COUNTY, NEW MEXICO

7. Cardinal #1 - Soil Staining at Separation Equipment Area