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# REPORTS

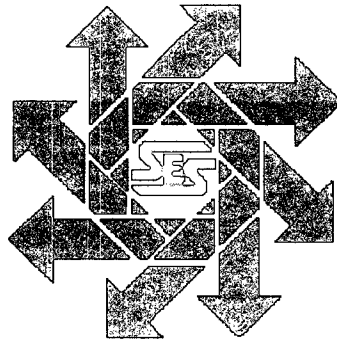
DATE:

2002

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IR-344

**ChevronTexaco  
Remediation/Cleanup  
Coleman/Grimes Battery  
Section 33, Township 18S, Range 38E  
Lea County, New Mexico**



**October 1, 2002**

***Prepared for:***

**ChevronTexaco  
P.O. Box 1949  
Eunice, New Mexico 88231**

**By**

***Safety & Environmental Solutions, Inc.  
703 E. Clinton Suite 103  
Hobbs, New Mexico 88240  
(505) 397-0510***

## Table of Contents

I.	Background.....	1
II.	Contaminant and Size of Leak .....	1
III.	Work Performed .....	1
IV.	Figures & Appendicies .....	3
	FIGURE 1 – VICINITY MAP .....	4
	FIGURE 2 – SITE PLAN .....	5
	APPENDIX A – LETTER TO RESIDENTS .....	6
	APPENDIX B – ANALYTICAL RESULTS .....	7
	APPENDIX C – SITE PHOTOS .....	8

## I. Background

In July 2001 Safety & Environmental Solutions, Inc. (SESI) was engaged by ChevronTexaco to perform a site investigation at the abandoned tank battery location. Following the site investigation, SESI was to remove all visually stained soils from the area as stated in the work plan dated September 14, 2001. The subject area is identified as the Coleman/Grimes Battery and is located in Section 33, Township 18, Range 38E in Lea County, New Mexico. The site is situated inside the city limits of Hobbs, New Mexico and is bound by Alston Street to the north, Burk Street to the east, Cain Street to the south, and Coleman Street to the west. The subject site was used as storage for fluids produced by wells in the area. The property is currently vacant. The site is situated on a relatively level site. (Figure 1)

ChevronTexaco sent a letter to all residents in the adjoining neighborhood informing them that they would initiate an NMOCD approved work plan to remove soils from the site. The letter also stated that all work would be performed between 8:30 A.M. and 3:30 P.M. (Appendix A)

## II. Contaminant and Size of Leak

The suspected contaminant is crude oil and produced water associated with the tank battery at the site. The approximate size of the total area surrounding the battery is approximately 20,000 sq. ft. The crude oil and produced water are considered exempt oilfield waste. No evidence of other contaminants was observed.

## III. Work Performed

The cleanup level reached by the application of the "**Unlined Surface Impoundment Closure Guidelines**" *New Mexico Oil Conservation Division* - February 1993 to this site is 1000 ppm TPH.

During the Site Investigation dated August 27, 2001 it was found that the site contained no levels of contamination that are above the regulatory limits. However, at the request of the NMOCD, all visually stained soils were excavated.

The Coleman/Grimes project was completed on October 1, 2002. The project began on September 9, 2002 working between the hours of 8:00 A.M. and 3:30 P.M. The work plan called for the removal of the visually contaminated soils in the area immediately around the battery site. The amount of soil to be removed was approximately 740 cubic yards (100' X 200' X 1'). The excavation of the identified area began and almost immediately several previously unidentified pipelines were found. The progress was slowed while trying to identify and determine the status of these lines. A welder was called to cut two lines after it was determined the lines were not being used. One 2" line running north and

south through the center of the excavated area was not able to be identified and as a result left in place. Leaving this line in place effectively divided the project into two areas, east and west. Both the east and west areas were excavated to a depth of approximately 9" to 12", and during that excavation an adjoining area to the south was encountered and excavated to a depth of 12" to 18". (Figure 2) Approximately 996 cubic yards of visually contaminated soil was excavated and removed to Rhino Oil Field, Disposal, Inc. an NMOCD approved facility.

Excavation of the site was completed on September 12, 2002. The excavation took place during the hours of 8:00 A.M. to 3:00 P.M. in order to cause the least amount of disturbance possible to the surrounding neighborhood. Water was used to suppress the dust cloud created by the excavation and loading of the contaminated material. Every effort was made not to disturb or distress the residents in the area. No resident complaints were noted during the project.

The bottom of the excavation was sampled on September 13, 2002. The samples collected were preserved on ice and delivered along with Chain of Custody to Cardinal Laboratories for analysis. Laboratory samples were analyzed for Chlorides (EPA Method 600/4-79-020 325.3).

The results of the analysis are as follows:

Date	Sample ID	Cl (mg/Kg)
9/13/02	E. Side 24 Comp.	48
9/13/02	W. Side 24 Comp.	80
9/13/02	S. Side 30 Comp.	64

The bottom of the excavation was also sampled on September 17, 2002. These samples were preserved on ice and delivered along with Chain of Custody to Cardinal Laboratories for analysis. Laboratory samples were analyzed for Total Petroleum Hydrocarbons (EPA Method SW 846 8015), and BTEX (EPA Method SW-846-8260).

The results of the analysis are as follows:

	Sample ID	TPH (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Xylenes (mg/Kg)
9/17/02	E. Side 6 pt. Comp.	126	<0.005	<0.005	<0.005	<0.015
9/17/02	W. Side 6 pt. Comp.	466	<0.005	<0.005	<0.005	<0.015
9/17/02	S. Side 6 pt. Comp.	450	<0.005	<0.005	<0.005	<0.015

A suitable soil was located and backfilled into the excavation. Approximately 940 cubic yards of backfill material was replaced in the excavation and the site was returned to the original grade. The backfill operation was completed on September 20, 2002.

On September 24, 2002, the site was prepared and seeded with Bermuda seed and watered. The site was watered again on September 27, and October 1, 2002.

#### IV. Figures & Appendices

Figure 1 – Vicinity Map

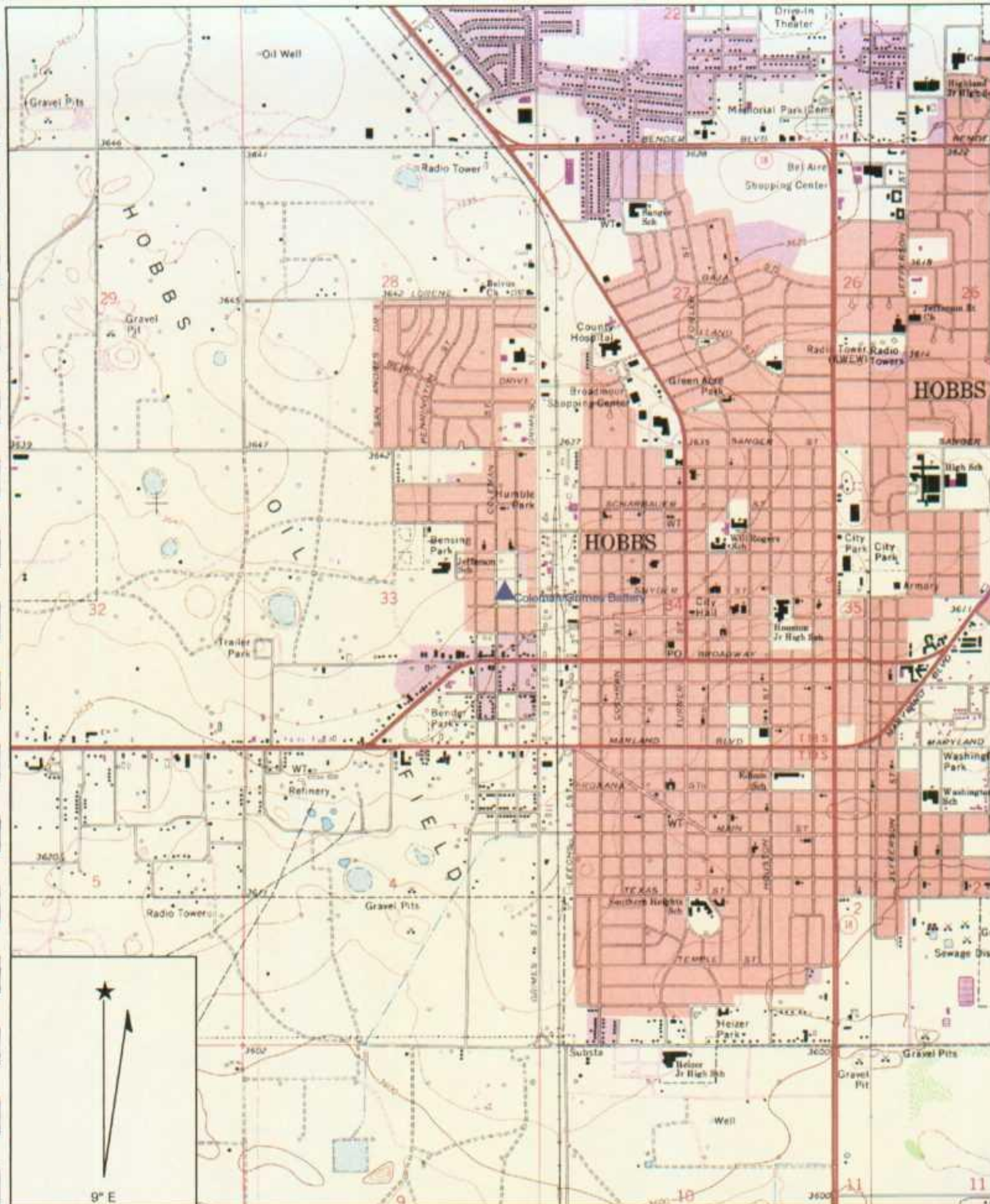
Figure 2 – Site Plan

Appendix A – Letter to Residents

Appendix B – Analytical Results

Appendix C – Site Photos

**Figure 1**  
**Vicinity Map**

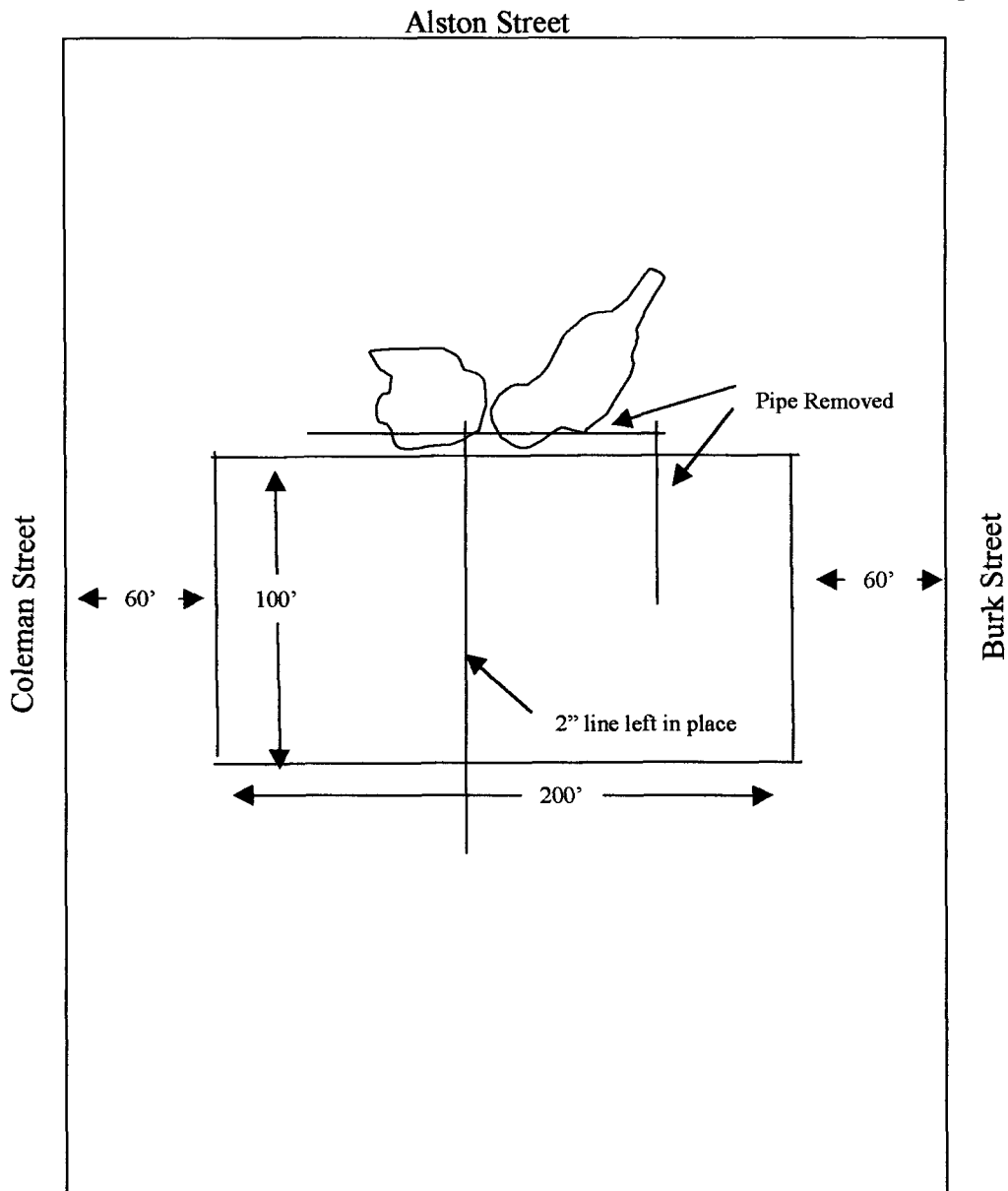
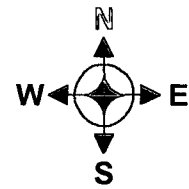


Name: HOBBS WEST  
 Date: 10/17/2002  
 Scale: 1 inch equals 2222 feet

Location: 032° 42' 11.7" N 103° 08' 47.6" W  
 Caption: Chevron Texaco  
 Coleman/Grimes Battery  
 Section 33 18S 38E



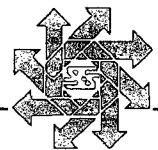
**Figure 2**  
**Site Plan**



**Section 33,  
Township 18 South  
Range 38 East**

Cain Street

Not to Scale



**Chevron Texaco**

**Coleman Street  
Site Plan  
Excavation**

**Safety & Environmental  
Solutions, Inc.  
Hobbs, New Mexico**

## **Appendix A**

### **Letter to Residents**

# ChevronTexaco

September 3, 2002

ChevronTexaco will initiate an NMOCD approved work plan to remove soils from the vacant lot located between Coleman and Burk Streets (west and east) and between Cain and Alston Streets (south and north) on Monday, September 9, 2002. All work will be performed between 8:30 A.M. and 3:30 P.M. each day until project is completed (estimated to be 5 days) to minimize disturbance to the adjoining neighborhood. Additionally, we will be watering down the work area periodically to minimize dust and blowing sand.

If you have any questions concerning this project please contact me at (505) 394-1237. Thank you in advance for your patience.

Sincerely,



Rick Massey  
HES Champion New Mexico Area  
ChevronTexaco Permian Business Unit

## **Appendix B**

### **Analytical Results**



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.  
ATTN: BOB ALLEN  
703 E. CLINTON, #103  
HOBBS, NM 88240  
FAX TO: (505) 393-4388

Receiving Date: 09/13/02  
Reporting Date: 09/17/02  
Project Number: CHE-01-004 (CHEVRON/TEXACO)  
Project Name: NOT GIVEN  
Project Location: COLEMAN ST.

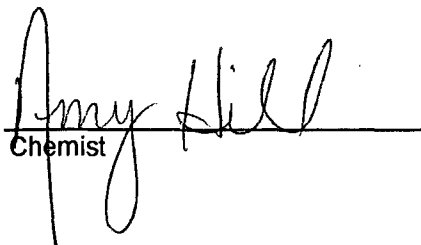
Analysis Date: 09/17/02  
Sampling Date: 09/13/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

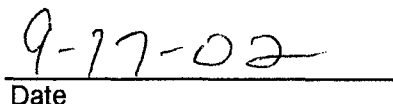
LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/Kg)
H7031-1	E. SIDE 24 COMP.	48
H7031-2	W. SIDE 24 COMP.	80
H7031-3	S. SIDE 30 COMP.	64
Quality Control		970
True Value QC		1000
% Recovery		97.0
Relative Percent Difference		1.0

METHOD: Std. Methods

4500-Cl<sup>-</sup>B

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

  
Date



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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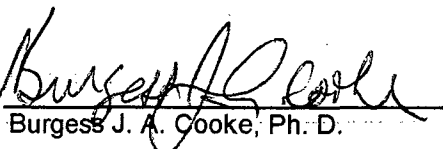
Receiving Date: 09/17/02  
Reporting Date: 09/18/02  
Project Number: CHE-01-004 (CHEVRON/TEXACO)  
Project Name: NOT GIVEN  
Project Location: COLEMAN ST.

Sampling Date: 09/17/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NO.	SAMPLE ID	TPH (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
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ANALYSIS DATE:	09/17/02	09/17/02	09/17/02	09/17/02	09/17/02
H7050-1 E. SIDE 6 PT. COMP.	126	<0.005	<0.005	<0.005	<0.015
H7050-2 W. SIDE 6 PT. COMP.	466	<0.005	<0.005	<0.005	<0.015
H7050-3 S. SIDE 6 PT. COMP.	450	<0.005	<0.005	<0.005	<0.015
Quality Control	240	0.108	0.108	0.111	0.321
True Value QC	240	0.100	0.100	0.100	0.300
% Recovery	99.8	108	108	111	107
Relative Percent Difference	3.3	9.1	8.2	7.5	7.9

METHODS: TRPHC-EPA 600/4-79-020 418.1; BTEX -EPA SW-846 8260

  
Burgess J. A. Cooke, Ph. D.

  
Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(815) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

+ Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.



## **Appendix C**

### **Site Photos**



Site Facing West - During Excavation



Site Facing South - During Excavation



Completed Project Facing West



Completed Project Facing South West



Completed Project Facing South