

CLOSURE REPORT



RECEIVED

APR 15 1998

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

CLOSURE REPORT

**TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE 8 AND 8A
LEA COUNTY, NEW MEXICO**



5309 Wurzbach, Suite 100
San Antonio, Texas 78238
(210) 680-3767
(210) 680-3763 FAX

CLOSURE REPORT

**TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE 8 AND 8A
LEA COUNTY, NEW MEXICO**

PREPARED FOR:

TEXAS - NEW MEXICO PIPE LINE COMPANY

P. O. Box 1030
Jal, New Mexico 88252

Mr. Tony Savoie

PREPARED BY:

KEI

A handwritten signature in cursive script, reading 'Theresa Nix'.

Theresa Nix
Project Manager

A handwritten signature in cursive script, reading 'J. Michael Hawthorne'.

J. Michael Hawthorne, P.G., REM
Senior Geologist

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
PURPOSE AND SCOPE	2
BACKGROUND INFORMATION	2
CLOSURE ACTIVITIES	2
CLOSURE STANDARDS	
SOIL REMOVAL	
SOIL CHARACTERIZATION	
CONFIRMATION SAMPLING	
SOIL DISPOSAL	
BACKFILL AND RESTORATION	
QA/QC PROCEDURES	4
SOIL	
WATER	
FIGURES	
FIG. 1 - SITE LOCATION MAP	
FIG. 2 - SITE DETAILS	
FIG. 3 - SAMPLING POINT LOCATIONS AND CONCENTRATIONS	
TABLES	
GENERAL NOTES	
TABLE I - SUMMARY OF LABORATORY RESULTS - SOIL	
TABLE II - SUMMARY OF LABORATORY RESULTS - WATER	
APPENDICES	
APPENDIX A - LABORATORY REPORTS	
CHAIN-OF-CUSTODY DOCUMENTATION	
APPENDIX B - DISPOSAL DOCUMENTATION	

EXECUTIVE SUMMARY

The Texas - New Mexico Pipe Line Company (TNMPL) alleged release sites 8 and 8A are located approximately 1.8 miles west of Monument in Lea County, New Mexico. The sites are specifically located in Section 5, Township 26 South, Range 37 East. A site location map is presented as FIG. 1. The sites are owned by the State of New Mexico and leased to Mr. Jimmy Cooper. Specific site details are presented on FIG. 2. This report summarizes closure activities performed at the project site from June through October of 1997.

Closure activities performed included the following:

- collection of soil samples from the initial excavation to determine hydrocarbon concentration levels;
- excavation and stockpiling of additional soils which exceeded closure levels;
- collection of confirmation samples in the excavated area;
- characterization of stockpiled soils;
- transportation and off-site landfarming of stockpiled soils; and
- backfilling the excavation with clean soils.

The following conclusions are based on field and laboratory data:

- The closure standards at the site were determined to be as follows:

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	100 + Background Concentration

- Approximately 833 cubic yards of impacted soil was excavated, stockpiled, and landfarmed off-site.
- Confirmation soil samples at the site indicated TPH, benzene, and BTEX concentrations below closure standards.

From the conclusions presented above, we request the site be closed under New Mexico Oil Conservation Division (OCD) regulations.

PURPOSE AND SCOPE

The objective of the site closure activities was to obtain closure for the site based on OCD regulations. The following activities were performed to achieve this objective:

- determination of closure standards;
- removal of impacted soil;
- characterization of removed impacted soil;
- confirmation sampling in the excavated area;
- transportation and off-site landfarming of impacted soil; and
- backfilling with clean soil in the excavated area.

BACKGROUND INFORMATION

A hydrocarbon release was identified at the subject site during 1997. The following activities were performed as part of the current release response activities:

- Clean overburden soils including topsoil were removed and stockpiled on-site.
- Soils were excavated, stockpiled, and some soils were landfarmed off-site.
- Five exploratory soil borings were advanced at Site 8.
- Soil samples were collected from native soils during soil boring advancement.
- A water sample was collected from water which had accumulated in the excavation bottom at Site 8A.

CLOSURE ACTIVITIES

CLOSURE STANDARDS

The New Mexico OCD Guidelines for Remediation of Leaks, Spills, and Releases contains the standard criteria for remediation activities. A ranking analysis for the site was performed to determine appropriate soil remediation levels. The ranking analysis is as follows:

CRITERIA	APPLICABLE STANDARD	POINTS
Depth to Ground Water	Less Than 50 Feet	20 Points
Well Head Protection	Greater Than 1000 Feet to Water Source Greater Than 200 Feet to Private Water Source	0 Points
Surface Water Body	Greater Than 1000 Feet	0 Points
Total Ranking Score		20 Points

On June 6, 1997, exploratory soil boring B8-4 was re-entered and extended to the depth of ground water, at approximately 16.5 feet below ground surface.

Based on the total ranking score, the closure objectives for this site for concentrations of benzene, BTEX, and TPH are summarized below.

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	100 + Background Concentration

SOIL REMOVAL

Additional soils were removed from the bottom and sidewalls of the existing excavation from June 6, 1997 through June 25, 1997. These soils included sediments which had washed into the excavation. An estimated 833 cubic yards were removed from the existing excavation and stockpiled on-site for characterization prior to off-site landfarming.

SOIL CHARACTERIZATION

The soil stockpiles were characterized by collecting two composite soil samples for determination of TPH. Laboratory results indicated TPH concentrations of 280 mg/kg and 3,500 mg/kg. Laboratory results are presented in APPENDIX A.

CONFIRMATION SAMPLING

Composite soil samples were collected from the excavation bottom and excavation sidewall and submitted for determination of TPH concentrations. Based on the laboratory results of the excavation bottom soil sample, additional soils were excavated and the bottom resampled. The sample locations are presented on FIG. 3.

A water sample was collected on June 12, 1997 from ground water which had accumulated in the excavation bottom at Site 8A and submitted for determination of BTEX and TPH concentrations. Laboratory results indicated BTEX and TPH concentrations of 0.006 mg/l and 6 mg/l, respectively.

Laboratory results of the final composite soil samples indicated the following:

SAMPLE LOCATION	MAX. TPH	MAX. BTEX	MAX. BENZENE
Final Soil Sidewall (mg/kg)	190*	1.277	0.183
Soil Bottom (mg/kg)	130*	ND	ND

* Background level was 192 mg/kg. Closure level was 292 mg/kg.

Previous soil samples collected during the advancement of soil borings B8-1 through B8-5 were submitted for determination of BTEX and TPH concentrations. Soil samples obtained from borings B8-1 and B8-2 indicated BTEX concentrations ranging from 1.58 to 18.45 mg/kg. Therefore, excavation bottom and sidewall samples were also submitted for determination of BTEX concentrations.

Soil laboratory results are summarized on TABLE I and graphically presented on FIG. 3. Water results are summarized on TABLE II.

SOIL DISPOSAL

Authorization to transport and landfarm the impacted soils off-site was obtained from OCD. The impacted soils were transported to C&C Landfarm Incorporated located approximately two miles south of Monument, New Mexico. Disposal documentation is presented in APPENDIX B.

BACKFILL AND RESTORATION

Approximately 210 cubic yards of clay was placed into the excavation to a depth of approximately six feet below ground surface. Approximately 460 cubic yards of clean fill material was purchased from Mr. Cooper. An estimated 210 cubic yards of the clean fill material was rock which was placed above the clay layer in the excavation. The remaining 250 cubic yards of clean soil was placed over the rock in the excavation to complete the backfilling operations. The area was graded and reseeded following backfilling.

QA/QC PROCEDURES

SOIL

The soil samples collected were placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity with soil to limit the amount of head-space present. Each container was labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to Environmental Lab of Texas, Inc. in Odessa, Texas for determination of TPH concentrations using EPA Method 418.1 and BTEX concentrations using EPA Method SW846-8020, 5030. Proper chain-of-custody documentation was maintained throughout the sampling process.

WATER

A sample was collected of water which had seeped into the excavation bottom. The excavation water sample was collected with a disposable Teflon bailer and polyethylene line. Water sample containers were filled in the order of decreasing volatility (i.e., BTEX containers were filled first and TPH containers second).

Water samples collected for BTEX analyses were placed in sterile, 40 ml glass VOA vials equipped with Teflon-lined caps. The containers were provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the presence of air bubbles.

Water samples collected for TPH analysis were filled to capacity in sterile, one liter glass containers equipped with Teflon-lined caps. The containers were provided by the analytical laboratory.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to Environmental Lab of Texas, Inc. in Odessa, Texas for determination of BTEX and TPH concentrations using EPA Method SW846-8020 and EPA Method 418.1, respectively. Proper chain-of-custody documentation was maintained throughout the sampling process.

MONUMENT NORTH QUADRANGLE

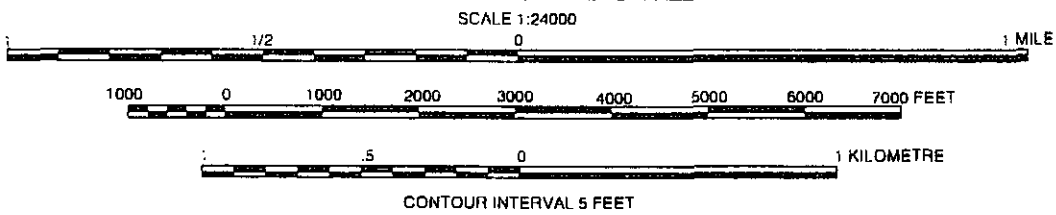
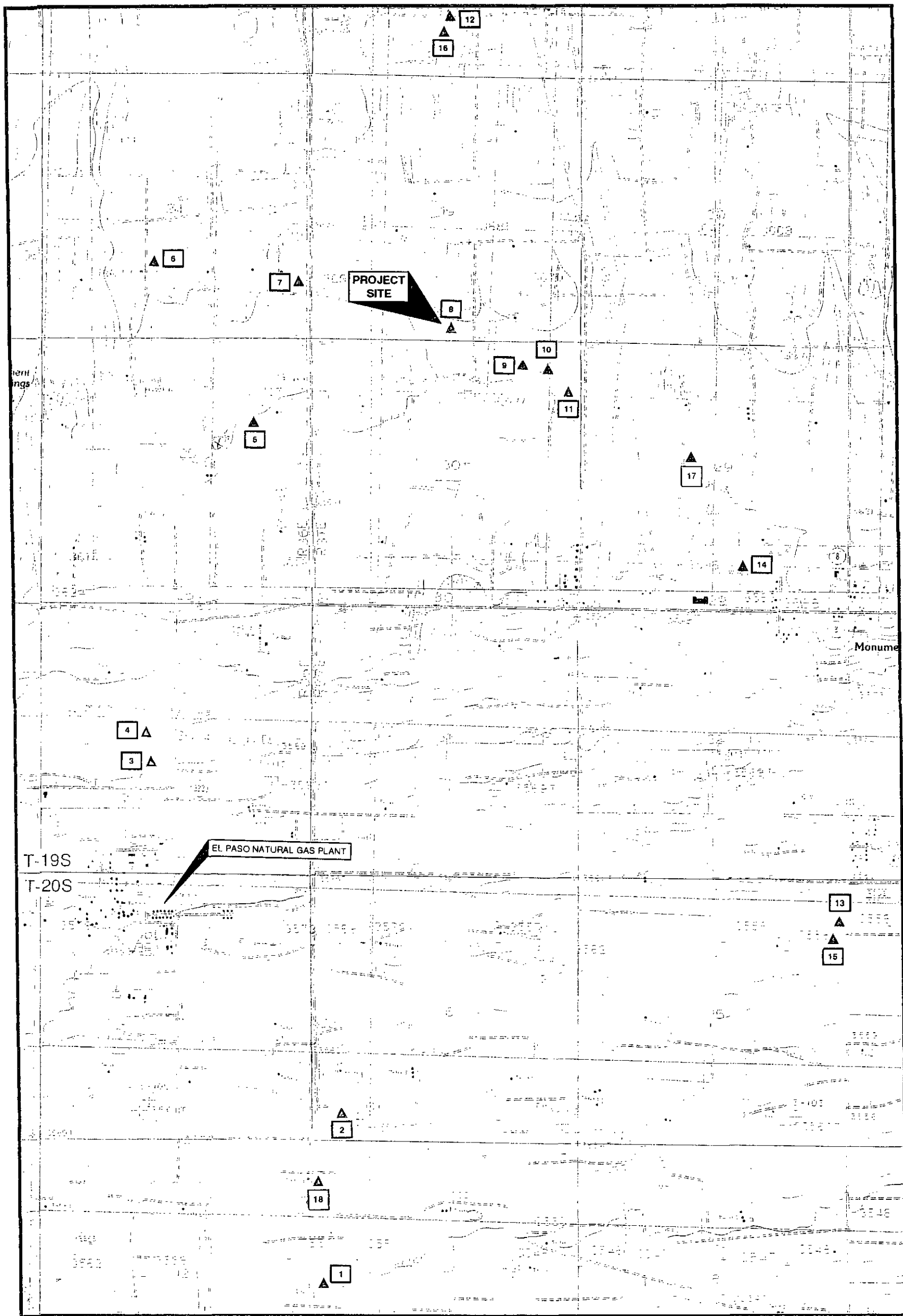
NEW MEXICO - LEA COUNTY

PRINTED 1985

MONUMENT SOUTH QUADRANGLE

NEW MEXICO - LEA COUNTY

PRINTED 1985



SITE LOCATION MAP

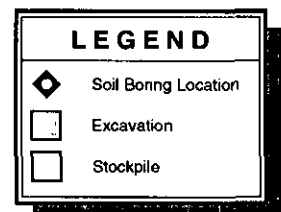
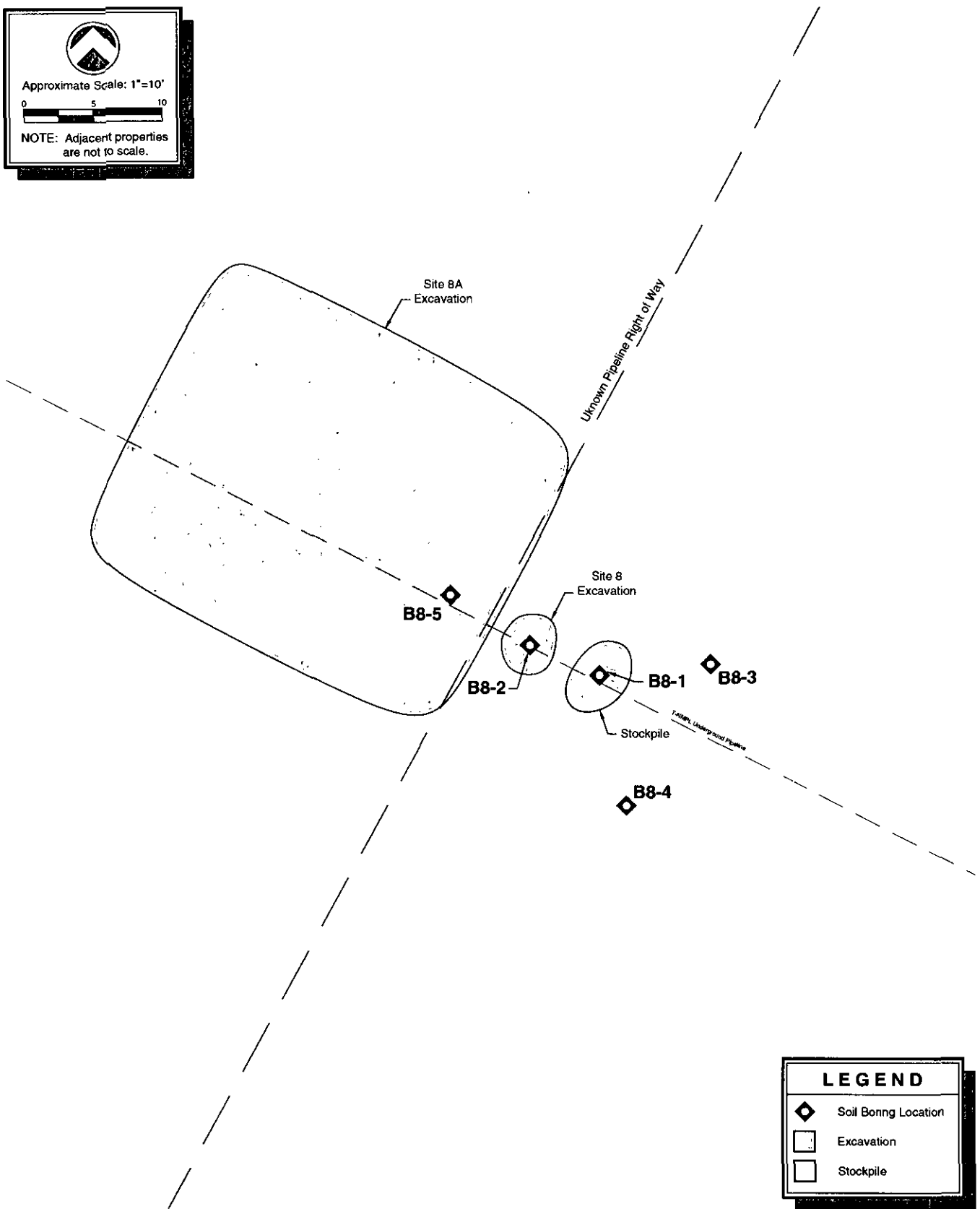
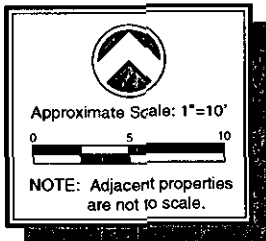
TEXAS - NEW MEXICO PIPE LINE CO.

MONUMENT SITE No. 8 AND 8A

LEA COUNTY, NEW MEXICO

610057

FIG 1



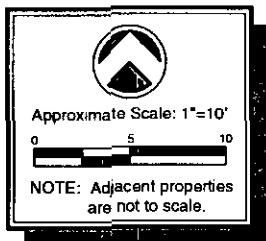
SITE DETAILS

TEXAS - NEW MEXICO PIPE LINE CO. MONUMENT SITE No. 8 AND 8A LEA COUNTY, NEW MEXICO

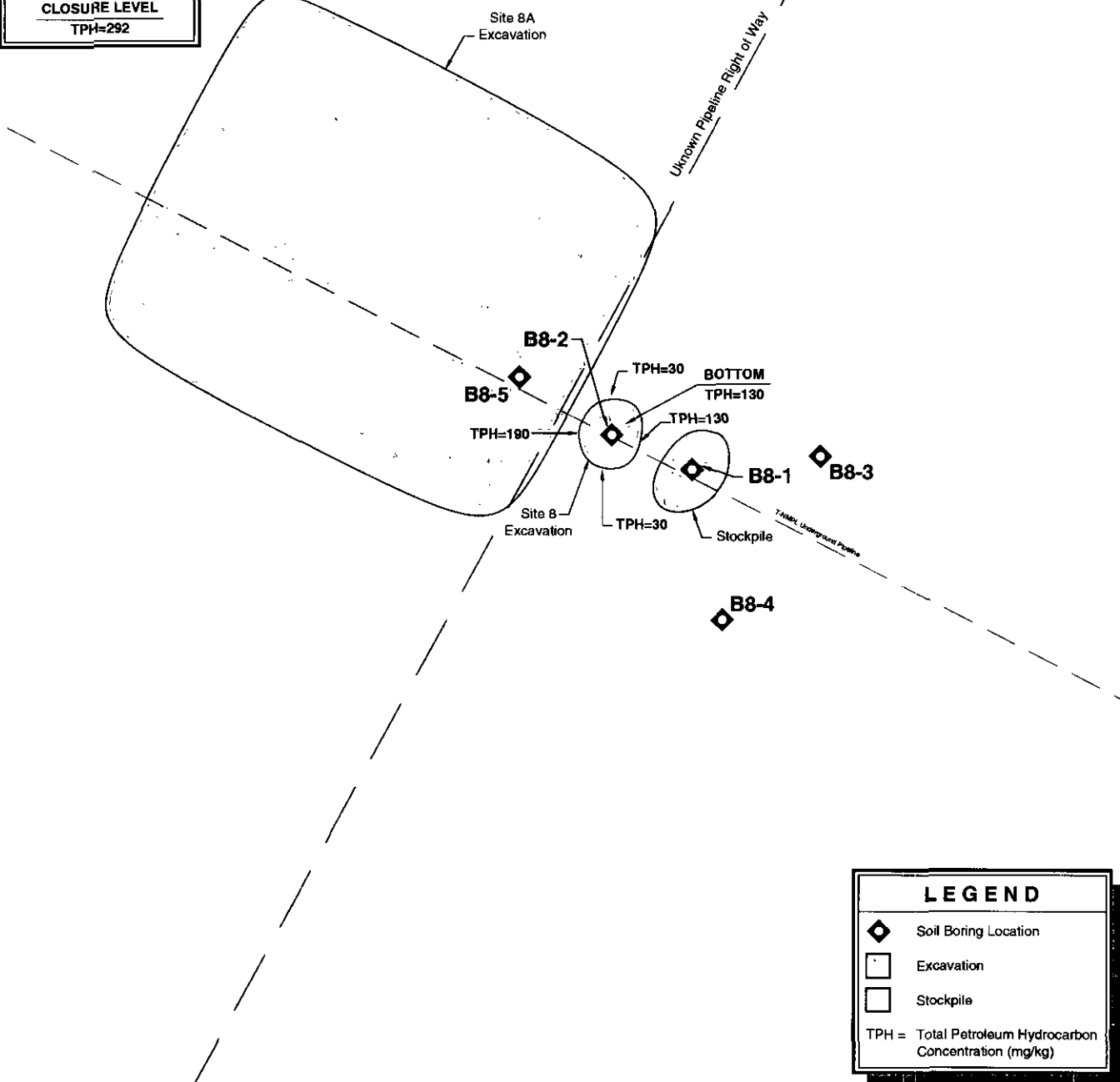
610057

FIG 2

kei



BACKGROUND
TPH=192
CLOSURE LEVEL
TPH=292



LEGEND	
	Soil Boring Location
	Excavation
	Stockpile
TPH = Total Petroleum Hydrocarbon Concentration (mg/kg)	

11/20/97 RM G:\6157\FIG3



SAMPLING POINT LOCATIONS AND CONCENTRATIONS

TEXAS - NEW MEXICO PIPE LINE CO. MONUMENT SITE No. 8 AND 8A LEA COUNTY, NEW MEXICO

610057

FIG 3

GENERAL NOTES

ND - Indicates constituent was not detected above the method detection limit.

Method detection limits:

Soil: BTEX - 0.001 mg/kg
 TPH - 10 mg/kg

Water: BTEX - 0.001 mg/l
 TPH - 1 mg/l

Laboratory test methods: BTEX - EPA Method SW846-8020, 5030
 TPH - EPA Method 418.1

TABLE I

**SUMMARY OF LABORATORY RESULTS - SOIL
EXCAVATION ACTIVITIES - MONUMENT SITE 8
LEA COUNTY, NEW MEXICO**

SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENES (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)
Boring Installation							
B8-1 at 1 - 2 feet	03/06/97	8.20	3.40	1.33	5.52	18.45	17,500
B8-1 at 5 - 6 feet	04/08/97	ND	ND	ND	ND	ND	ND
B8-1 at 10 - 11 feet	04/08/97	ND	ND	ND	ND	ND	15.5
B8-2 at 1 - 2 feet	04/08/97	ND	0.12	0.14	1.32	1.58	18,300
B8-2 at 10 - 11 feet	04/08/97	ND	ND	ND	ND	ND	ND
B8-3 at 5 - 6 feet	04/08/97	ND	ND	ND	ND	ND	ND
B8-3 at 10 - 11 feet	04/08/97	ND	ND	ND	ND	ND	ND
B8-4 at 5 - 6 feet	04/08/97	ND	ND	ND	ND	ND	11.0
B8-4 at 10 - 11 feet	04/08/97	ND	ND	ND	ND	ND	ND
B8-5 at 5 - 6 feet	04/08/97	ND	ND	ND	ND	ND	24.0
B8-5 at 10 - 11 feet	04/08/97	ND	ND	ND	ND	ND	160
Excavation Sampling							
Excavation Bottom	02/24/97	ND	ND	ND	ND	ND	190
East Sidewall	06/12/97	0.183	0.163	ND	0.137	0.483	130
South Sidewall	06/12/97	ND	ND	ND	ND	ND	30
North Sidewall	06/12/97	ND	0.493	0.127	0.657	1.277	30
West Sidewall	06/12/97	ND	ND	ND	ND	ND	190
Soil Characterization Sampling							
Stockpile	02/24/97	ND	ND	ND	ND	ND	280
Stockpile	06/25/97	---	---	---	---	---	3,500
Background Sampling							
Background	05/28/97	---	---	---	---	---	192
Confirmation Sampling							
Excavation Bottom ⁽¹⁾	06/12/97	ND	ND	ND	ND	ND	130

NOTES:

1. Indicates the retest of excavation sample collected February 24, 1997, following overexcavation of additional soils.

TABLE II

**SUMMARY OF LABORATORY RESULTS - WATER
EXCAVATION ACTIVITIES - MONUMENT SITE 8A
LEA COUNTY, NEW MEXICO**

SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	XYLENES (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)
Excavation Bottom	06/12/97	ND	0.003	ND	0.003	0.006	6

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 9210-680-3763

Receiving Date: 02/25/97
Sample Type: SOIL
Project: 610057 .02.08A
Project Location: MONUMENT, NM

Analysis Date: TPH 02/26/97
Analysis Date: BTEX: 02/25/97
Sampling Date: 02/24/97
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	TPH mg/kg
10293	STOCKPILE	<0.100	<0.100	<0.100	<0.100	<0.100	280
10294	HOLE	<0.100	<0.100	<0.100	<0.100	<0.100	190

% IA	85	83	84	96	85	99
% EA	100	94	89	100	91	102
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<1

METHODS: SW 846-8020,5030 , EPA 418.1


Michael R. Fowler

3-17-97
Date

MAR 22 1997

**CERTIFICATE OF ANALYSIS SUMMARY 1-70562**

K.E.I. Consultants, Inc.
Project Name: TNMPL Monument

Project ID: 610057-2-8
Project Manager: Ann Baker
Project Location: Site 8


Date Received in Lab: Mar 7, 1997 10:10 by CB
Date Report Faxed: Mar 11, 1997

XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID:	170562-001					
	Field ID:	B8-1					
	Depth:	1-2'					
BTEX Analyzed by EPA 8020		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Mar 10, 1997					
Benzene		8.20					
Toluene		3.40					
Ethylbenzene		1.33					
m,p-Xylenes		4.32					
o-Xylene		1.20					
Total BTEX		18.45					
TPH Analyzed by EPA 418.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Mar 11, 1997					
Total Petroleum Hydrocarbons		17500					

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward H. Yonemoto, Ph.D.
QA/QC Manager

ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

XENCO COC#: 1-70562

Project Name: TNMPL Monument

Project ID: 610057-2-8

Date Received in Lab: Mar 7, 1997 10:10 by CB

Project Manager: Ann Baker

XENCO contact : Carlos Castro/Edward Yonemoto

Project Location: Site 8

Date and Time									
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 B8-1	170562-001	BTEX	SW-846	ppm	Standard	Mar 6, 1997 10:35		Mar 10, 1997 by CB	Mar 10, 1997 13:59 by CB
2		TPH	EPA 418.1	ppm	Standard	Mar 6, 1997 10:35		Mar 11, 1997 by HL	Mar 11, 1997 09:37 by HL



11381 Meadowglan Suite L Houston, Texas 77082
(713) 589-0692

CHAIN OF CUSTODY RECORD
AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab. Batch # 170562-8A

Contractor <u>KEI Consult Hart</u>		Phone <u>410 686-3767</u>		No coolers this shipment:		Contractor COC # <u>0005</u>	
Address <u>5309 Wurzbach Ste 100, SA, TX 78238</u>		Project Director <u>Paul Hartnett</u>		Carrier:		Quote #:	
Project Name <u>THMPL Monument</u>		Project Manager <u>Ann Baker</u>		Airbill No.		P.O. No. <u>7238</u>	
Project Location <u>Site B</u>		Project No. <u>610057-2-8</u>		Total		L A B ONLY ID #	
Sampler Signature <u>Brian Siegfried</u>		Unl Dics Ker Unknown		Waste Oil		Turn-around	
SAMPLE CHARACTERIZATION		Preservative		PTT No.		ASAP	
Field ID		Date		Time		24 hrs	
1 B8-1		3/6/97		1035		48 hrs	
1-2		3/6/97		1035		Standard	
1		3/6/97		1035		Remarks	
2		3/6/97		1035		Please Hold	
3		3/6/97		1035		BTEX (5030-6020-602)	
4		3/6/97		1035		TPH (412)	
5		3/6/97		1035		1 X X	
6		3/6/97		1035		B8-1, 1-2	
7		3/6/97		1035			
8		3/6/97		1035			
9		3/6/97		1035			
10		3/6/97		1035			
Relinquished by		Signature		DATE		TIME	
Baker Siegfried		3/6/97		1000		1005	
Ann Baker		3/7/97		1010		1010	
Received For Laboratory by		Signature		DATE		TIME	
Ann Baker		3/7/97		1010		1010	

CERTIFICATE OF ANALYSIS SUMMARY 1-70867

Project ID: 610057-2-8
Project Manager: Ann Baker
Project Location: Site 8

K.E.I. Consultants, Inc.

Project Name: *TNMPL*

Date Received in Lab : Apr 14, 1997 10:50 by CMC

Date Report Faxed: Apr 16, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID: Field ID: Depth:	170867-001 B8-1 5'	170867-002 B8-1 10'	170867-003 B8-2 1'	170867-004 B8-2 10'	170867-005 B8-3 5'	170867-006 B8-3 10'	170867-007 B8-4 5'	170867-008 B8-4 10'	170867-009 B8-5 5'
BTEX by EPA 8020			Date Analyzed - Analytical Results								
			Apr 14, 1997	Apr 14, 1997	Apr 14, 1997	Apr 14, 1997	Apr 14, 1997	Apr 14, 1997	Apr 14, 1997	Apr 14, 1997	Apr 14, 1997
Benzene			< 0.020	< 0.020	< 0.10	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Toluene			< 0.020	< 0.020	0.12	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ethylbenzene			< 0.020	< 0.020	0.14	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
m,p-Xylenes			< 0.040	< 0.040	0.89	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
o-Xylene			< 0.020	< 0.020	0.43	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Total BTEX			< 0.120	< 0.120	1.58	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120
Total Petroleum Hydrocarbons by EPA 418.1			Date Analyzed - Analytical Results								
			Apr 15, 1997	Apr 15, 1997	Apr 15, 1997	Apr 15, 1997	Apr 15, 1997	Apr 15, 1997	Apr 15, 1997	Apr 15, 1997	Apr 15, 1997
Total Petroleum Hydrocarbons			< 10.0	15.5	18300	< 10.0	< 10.0	< 10.0	11.0	< 10.0	24.0

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc.. The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward Yonemoto, Ph.D.
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-70867

Project ID: 610057-2-8 Project Manager: Ann Baker Project Location: Site 8		K.E.I. Consultants, Inc. Project Name: TNMPL		Date Received in Lab : Apr 14, 1997 10:50 by CMC Date Report Faxed: Apr 16, 1997 XENCO contact : Carlos Castro/Edward Yonemoto			
Analysis Requested	Lab ID: Field ID: Depth:	170867-010 B8-5 10'	Date Analyzed - Analytical Results				
BTEX by EPA 8020			ppm (mg/L - mg/Kg)				
Benzene			Apr 14, 1997	< 0.020			
Toluene				< 0.020			
Ethylbenzene				< 0.020			
m,p-Xylenes				< 0.040			
o-Xylene				< 0.020			
Total BTEX				< 0.120			
Total Petroleum Hydrocarbons by EPA 418.1			ppm (mg/L - mg/Kg)				
Total Petroleum Hydrocarbons			Apr 15, 1997	160			

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc.. The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


 Edward Yonemoto, Ph.D.
 QA/QC Manager

ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-2-8

Project Manager: Ann Baker

Project Location: Site 8

Project Name: TNMPL

XENCO COC#: 1-70867

Date Received in Lab: Apr 14, 1997 10:50 by CMC

XENCO contact : Carlos Castro/Edward Yonemoto

					Date and Time				
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 B8-1 (5') Soil	170867-001	BTEX	SW-846	ppm	Standard	Apr 8, 1997 12:30		Apr 14, 1997 by HL	Apr 14, 1997 14:06 by HL
2		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 12:30		Apr 15, 1997 by OL	Apr 15, 1997 14:36 by OL
3 B8-1 (10') Soil	170867-002	BTEX	SW-846	ppm	Standard	Apr 8, 1997 12:58		Apr 14, 1997 by HL	Apr 14, 1997 14:23 by HL
4		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 12:58		Apr 15, 1997 by OL	Apr 15, 1997 14:39 by OL
5 B8-2 (1') Soil	170867-003	BTEX	SW-846	ppm	Standard	Apr 8, 1997 13:27		Apr 14, 1997 by HL	Apr 14, 1997 16:57 by HL
6		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 13:27		Apr 15, 1997 by OL	Apr 15, 1997 14:42 by OL
7 B8-2 (10') Soil	170867-004	BTEX	SW-846	ppm	Standard	Apr 8, 1997 13:49		Apr 14, 1997 by HL	Apr 14, 1997 14:40 by HL
8		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 13:49		Apr 15, 1997 by OL	Apr 15, 1997 14:45 by OL
9 B8-3 (5') Soil	170867-005	BTEX	SW-846	ppm	Standard	Apr 8, 1997 14:02		Apr 14, 1997 by HL	Apr 14, 1997 14:57 by HL
10		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 14:02		Apr 15, 1997 by OL	Apr 15, 1997 14:48 by OL
11 B8-3 (10') Soil	170867-006	BTEX	SW-846	ppm	Standard	Apr 8, 1997 14:27		Apr 14, 1997 by HL	Apr 14, 1997 15:15 by HL
12		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 14:27		Apr 15, 1997 by OL	Apr 15, 1997 14:51 by OL
13 B8-4 (5') Soil	170867-007	BTEX	SW-846	ppm	Standard	Apr 8, 1997 15:06		Apr 14, 1997 by HL	Apr 14, 1997 15:32 by HL
14		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 15:06		Apr 15, 1997 by OL	Apr 15, 1997 14:54 by OL
15 B8-4 (10') Soil	170867-008	BTEX	SW-846	ppm	Standard	Apr 8, 1997 15:38		Apr 14, 1997 by HL	Apr 14, 1997 15:49 by HL
16		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 15:38		Apr 15, 1997 by OL	Apr 15, 1997 14:57 by OL
17 B8-5 (5') Soil	170867-009	BTEX	SW-846	ppm	Standard	Apr 8, 1997 15:58		Apr 14, 1997 by HL	Apr 14, 1997 16:06 by HL
18		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 15:58		Apr 15, 1997 by OL	Apr 15, 1997 15:20 by OL
19 B8-5 (10') Soil	170867-010	BTEX	SW-846	ppm	Standard	Apr 8, 1997 16:09		Apr 14, 1997 by HL	Apr 14, 1997 16:40 by HL
20		TPH	EPA 418.1	ppm	Standard	Apr 8, 1997 16:09		Apr 15, 1997 by OL	Apr 15, 1997 15:23 by OL



1881 Meadow Glen Suite L Houston, Texas 77082
(713) 589-0692

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 7

Lab. Batch # 170867-8A

Contractor KFI		Phone (281) 680-3767		No. of CONTAINERS		Carrier: 1		Contractor COC #																									
Address 5309 WURZBACH SA TR SUITE 100		Project Director PAUL HARTNET		Total		Airbill No.		Quote #:																									
Project Name TRMPL		Project Manager ARUN BAKER		Project No. 612057-2-8		BTEX (5030/8020-602)		TFH (481)																									
Project Location SITING		Sample Signature		SAMPLE CHARACTERIZATION		Turn-around * ASAP * 24 hrs * 48 hrs Standard		Remarks																									
Field ID		Date		Time		Depth		Container		Size		Type		P.G.		Preservative		Unl. Dies		Ker		Unknown		Waste Oil		PTT No.		Tank No.		Sample Description			
BE-1		4/6/97		1230		5'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-1		4/6/97		1258		10'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-2		4/6/97		1227		1'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-2		4/6/97		1349		10'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-3		4/6/97		1402		5'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-3		4/6/97		1427		10'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-4		4/6/97		1506		5'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-4		4/6/97		1536		10'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-5		4/6/97		1558		5'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
BE-5		4/6/97		1609		10'		X		1.4oz		G		K		X		1.4oz		G		K		X		1.4oz		G		K		SOIL	
Relinquished by		Signature		DATE		TIME		Received by		Signature		DATE		TIME		Remarks																	
[Signature]		4/14/97		1050		[Signature]		4/14/97		1050		[Signature]		4/14/97		1050																	
Received For Laboratory by		Signature		DATE		TIME		Received For Laboratory by		Signature		DATE		TIME		Remarks																	
[Signature]		4/14/97		1050		[Signature]		4/14/97		1050		[Signature]		4/14/97		1050																	

Print (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ALLSTATE SERVICES
MR. RANDY OFFIELD
P.O. BOX 11322
MIDLAND, TEXAS 79702
FAX: 915-682-4182

RECEIVING DATE: 05/28/97

SAMPLE TYPE: SOIL

PROJECT #: TNMPL-SITE 8 & 8A

PROJECT LOCATION: MONUMEN, N.M.

ANALYSIS DATE: 05/28/97

SAMPLING DATE: 05/28/97

SAMPLE CONDITION: Intact/Iced

ELT#	FIELD CODE	TPH (mg/kg)
11263	05-28-97 COMP BACKGROUND	192

QUALITY CONTROL

TRUE VALUE

% PRECISION

265

256

104

Methods: EPA 418.1


Michael R. Fowler

5-28-97
Date

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE
ATTN: MR. TONY SAVOIE
P.O. BOX 1030
JAL, NEW MEXICO 88252
FAX: 505-395-2636

Receiving Date: 06/13/97
Sample Type: WATER
Project #: TNM SITE #8
Project Location: MONUMENT, NEW MEXICO

Analysis Date: 06/13/97
Analysis Date: BTEX 6/17/97
Sampling Date: 06/12/97
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	m,p-XYLENE (mg/L)	o-XYLENE (mg/L)	TPH (mg/L)
11487	06-12-97 VOA WATER	<0.001	0.003	<0.001	0.003	<0.001	
11488	06-12-97 1 LITER WATER						6

% IA	94	88	86	85	86	100
% EA	109	103	99	99	100	
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<1

METHODS: EPA 418.1, SW 846-8020,5030


Michael R. Fowler

6-17-97
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE
ATTN: MR. TONY SAVOIE
P.O. BOX 1030
JAL, NEW MEXICO 88252
FAX: 505-395-2636

Receiving Date: 06/13/97
Sample Type: SOIL
Project #: TNM SITE #8
Project Location: MONUMENT, NEW MEXICO

Analysis Date: 06/13/97
Analysis Date: BTEX 6/16/97
Sampling Date: 06/12/97
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	TPH (mg/kg)
11482	06-12-97-BH COMP	<0.100	<0.100	<0.100	<0.100	<0.100	130
11483	06-12-97-E.S. WALL COMP	0.183	0.163	<0.100	0.137	<0.100	130
11484	06-12-97 S. SIDEWALL	<0.100	<0.100	<0.100	<0.100	<0.100	30
11485	06-12-97 N. SIDEWALL	<0.100	0.493	0.127	0.433	0.224	30
11486	06-12-97 W. SIDEWALL	<0.100	<0.100	<0.100	<0.100	<0.100	190

% IA	99	95	92	92	91	100
% EA	98	91	89	88	88	116
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: EPA 418.1, SW 846-8020,5030


Michael R. Fowler

6-17-97
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: <i>Randy Offield</i>		Phone #: 915/682-3547 FAX #: 915/682-4182		ANALYSIS REQUEST											
Company Name & Address: ALLSTATE SERVICES ENVIRONMENTAL, MIDLAND, TEXAS				TCLP Metals Ag As Ba Cd Cr Pb Hg Se TCLP Metals Ag As Ba Cd Cr Pb Hg Se TCLP Semi Volatiles TDS RCI											
Project #: <i>TXM Site #8</i>				BTEX 810/5030 TPH 418.1											
Project Location: <i>Mexico N. Mexico</i>				Project Name: Sampler Signature: <i>Randy Offield</i>											
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME
11482	06-12-97 - BN Comp	1		✓							✓			6-12	1535
11483	06-12-97 - E. S. wall comp	1		✓							✓			6-12	1515
11484	06-12-97 S. S. wall	1		✓							✓			6-12	1520
11485	06-12-97 N. S. wall	1		✓							✓			6-12	1530
11486	06-12-97 W. S. wall	1		✓							✓			6-12	1525
11487	06-12-97 VON WATER	2		✓							✓			6-12	1540
11488	06-12-97 1 Liter water	1	475	✓							✓			6-12	1545
REMARKS: Blank Check is 192 ppm Subtract Flow Analyzers is less than 100 ppm Run BTEX															
Relinquished by: <i>Randy Offield</i>		Date: 6-13-97		Time: 0830		Received by: <i>Randy Offield</i>									
Relinquished by:		Date:		Time:		Received by:									
Relinquished by:		Date:		Time:		Received by Laboratory:									

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: THERESA NIX
5309 WURZBACH SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-397-5125

Receiving Date: 06/26/97
Sample Type: SOIL
Project #: 610057
Project Location: SITE 8

Analysis Date: 06/26/97
Sampling Date: 06/25/97
Sample Condition: Intact/Iced

ELT#	FIELD CODE	TPH (mg/kg)
11592	STOCKPILE	3.500

% IA	100
% EA	98
BLANK	<10

METHODS: EPA 418.1


Michael R. Fowler

6-26-97
Date

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

P.O. 57741

Phone # 210 680 3768

Theresa

FAX: 202 680 3763

Company Name & Address

Project #:

Project Name :

610057

Project Location

3. Results and discussion

5/2/00

[illegible]

11592 Stockpile

6-75-47 PM

~~Relinquished by:~~

Date:

Index

Received by:

REMARKS

Reassigned by:

Dude:

2000

Received by:

Reliability

Date:

Index

Received by Laboratory:

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-12
Originated 8/87
Submit Origin
Plus 1 Co
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <i>by 2nd PRIZE</i>	4. Generator <i>TNM PLC.</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <i>8</i>
2. Management Facility Destination <i>C+C Land Farm Inc.</i>	6. Transporter <i>Turner</i>
3. Address of Facility Operator <i>2 mi. South Monument NM P.O. Box 55</i>	8. State <i>N.M.</i>
7. Location of Material (Street Address or ULSTR) <i>Site 8 1.8 mi. N.W. Monument</i>	
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

HydroCarbon Affected Soil
Non Hazardous / Knowledge OF PROCS

TNMPL MONUMENT PROJECT (HEI) OLD HUBBS AREA
Sites 1-21

JUN 24 1997
RECEIVED

Estimated Volume 600 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: *Jim T. Cooper* TITLE: President DATE: 6-18-97

Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Jim T. Cooper TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: *Paul Pugh* TITLE: Paul Pugh DATE: 6/24/97

APPROVED BY: _____ TITLE: _____ DATE: _____