



CLOSURE REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY MONUMENT SITE 5A LEA COUNTY, NEW MEXICO



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CLOSURE REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY MONUMENT SITE 5A LEA COUNTY, NEW MEXICO

PREPARED FOR:

TEXAS - NEW MEXICO PIPE LINE COMPANY P. O. Box 1030 Jal, New Mexico 88252

Mr. Tony Savoie

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KEI

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February 24, 1998

KEI Job No. 610057

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EXECUTIVE SUMMARY

The Texas - New Mexico Pipe Line Company (TNMPL) alleged release site is located approximately two miles west of Monument in Lea County, New Mexico. The site is specifically located in Section 36, Township 19 South, Range 36 East. A site location map is presented as FIG. 1. The site is owned by Mr. Jimmy Cooper.) Specific site details are presented on FIG. 2. This report summarizes closure activities performed at the project site from February through May 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:

	CLOSURE CONCENTRATIONS
CONSTITUENT	(mg/kg)
BENZENE	10
BTEX	50
ТРН	100 + Background Concentration
\1 [\]	

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- Approximately <u>372 cubic yards</u> of impacted soil were excavated, stockpiled, and landfarmed off-site.
- Confirmation soil samples at the site indicated TPH, benzene, and BTEX concentrations below closure standards.

Based on the attainment of closure standards at the site, we recommend 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

2-24-94

A <u>hydrocarbon release</u> was identified at the subject site during <u>1996</u>. The following activities were performed as part of the 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.
- Soil samples were collected from native soils during soil boring advancement.

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

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
ТРН	100 + Background Concentration

SOIL REMOVAL

An estimated 372 cubic yards of soil were removed from the bottom and sidewalls of the excavation June 4 through July 16, 1997, and stockpiled on-site for characterization prior to off-site landfarming.

SOIL CHARACTERIZATION

The soil stockpiles were characterized by collecting one composite soil sample for determination of TPH. Laboratory results indicated a TPH concentration of 5,650 mg/kg. Laboratory results are presented in APPENDIX A.

CONFIRMATION SAMPLING

Composite soil samples were collected from the excavation bottom and excavation sidewalls in three different areas (designated Area A, B, and C) and submitted for determination of TPH concentrations. Based on the laboratory results of the sidewall soil samples collected from each area, additional soils were excavated and the sidewalls resampled. Based on the laboratory results of the excavation bottom samples collected from Areas B and C, these excavation bottoms were resampled. The sample locations are presented on FIG. 3.

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

SAMPLE LOCATION	МАХ. ТРН	MAX. BTEX	MAX. BENZENE
Final Soil Sidewall (mg/kg)	190*	0.229	ND
Soil Bottom (mg/kg)	150*	0.405	ND

* Background level was 88 mg/kg. Site closure level was 188 mg/kg.

Excavation bottom and sidewall confirmation samples were also submitted for determination of BTEX concentrations.

Texas - New Mexico Pipe Line Company (TNMPL) documented a historical release by an unknown party in the vicinity of Area A. Therefore, the north sidewall, west sidewall, and excavation bottom in Area A was excavated to the point of the historical release impact.

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

SOIL DISPOSAL

Authorization to transport and landfarm the impacted soils off-site was obtained from the 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 498 cubic yards of clean fill material was purchased from Mr. Cooper and placed in the excavation. The remaining non-impacted stockpiled soils from the initial release excavation activities were used to complete the backfilling operations. The area was graded and reserved following backfilling.

QA/QC PROCEDURES

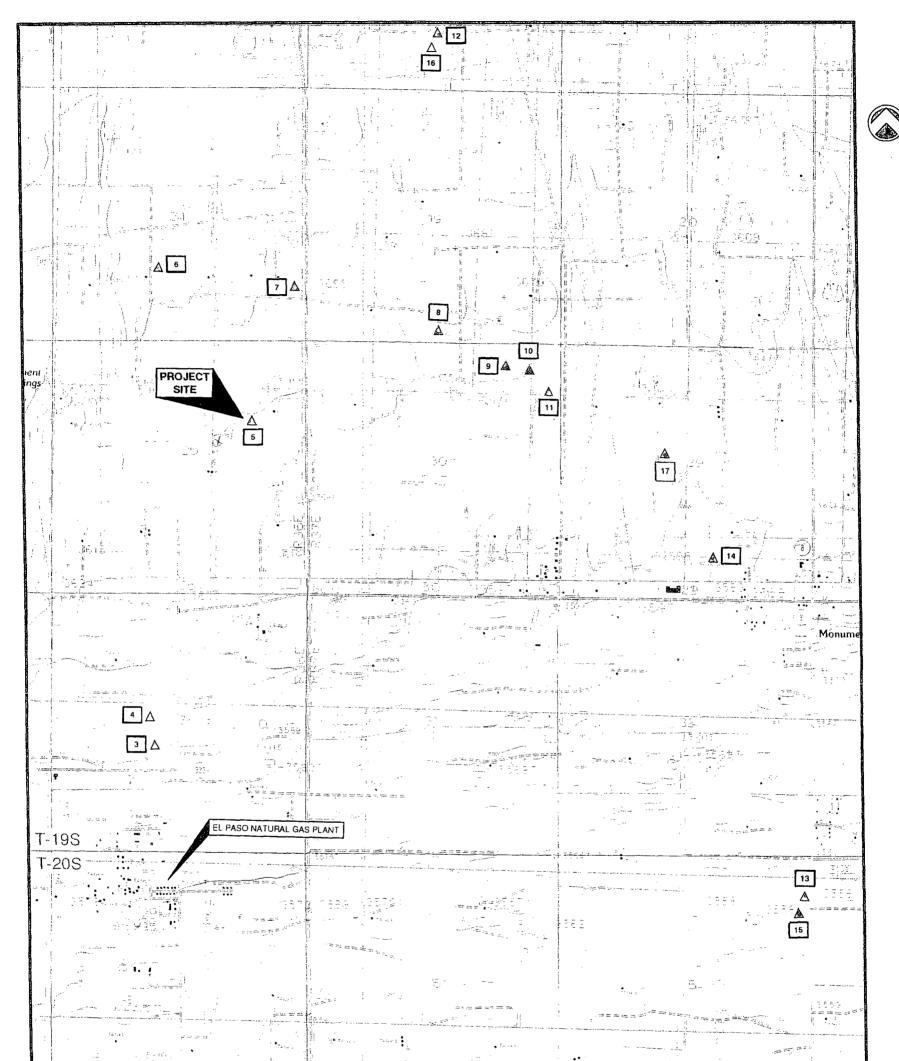
The soil samples collected were placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity with soil to limit the amount of head-space present. Each container was labeled and placed on ice in an insulated cooler. The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

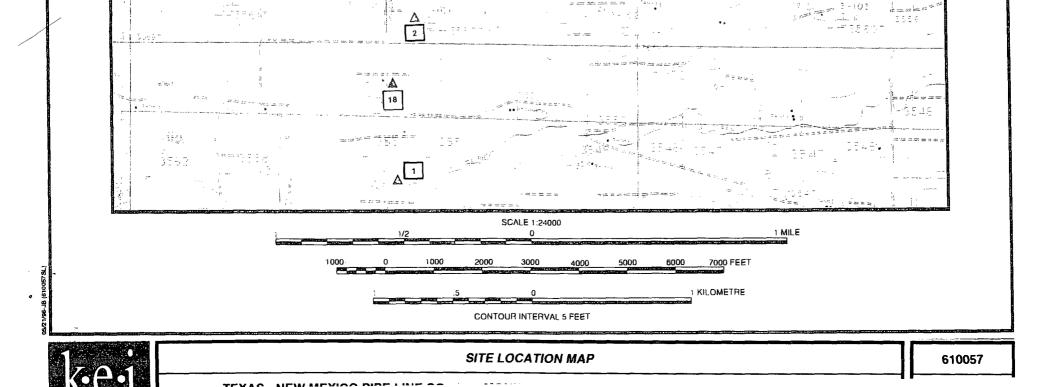
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MONUMENT SOUTH QUADRANGLE NEW MEXICO - LEA COUNTY PRINTED 1985

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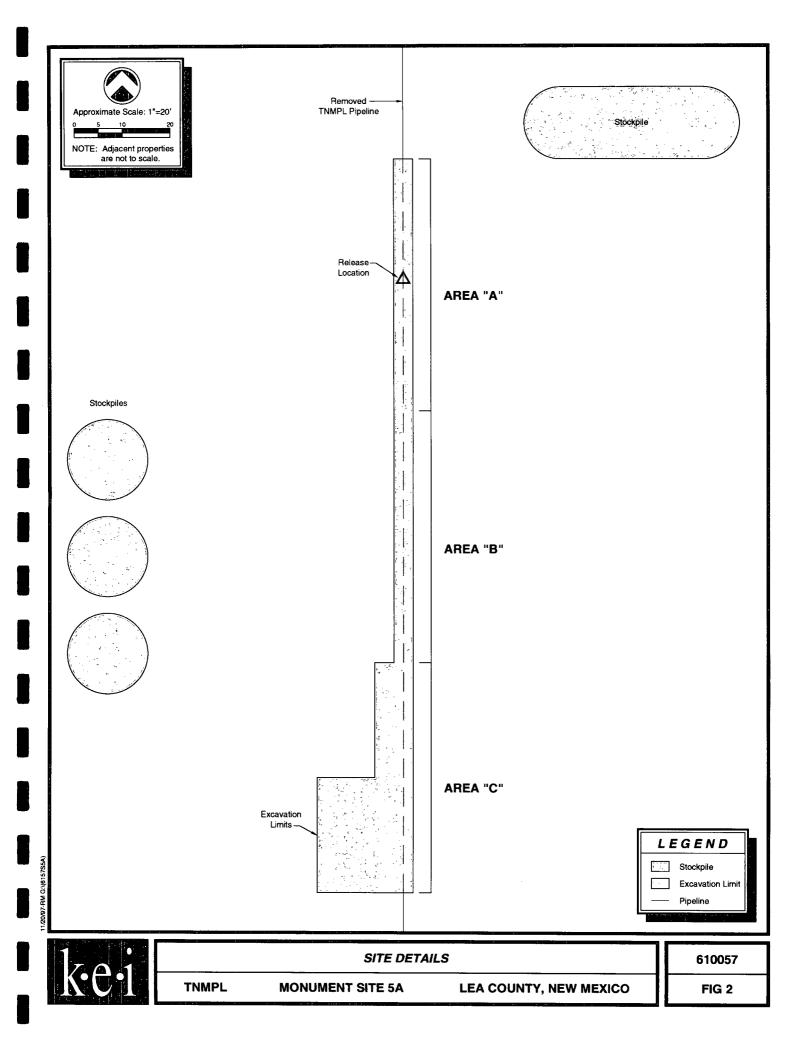


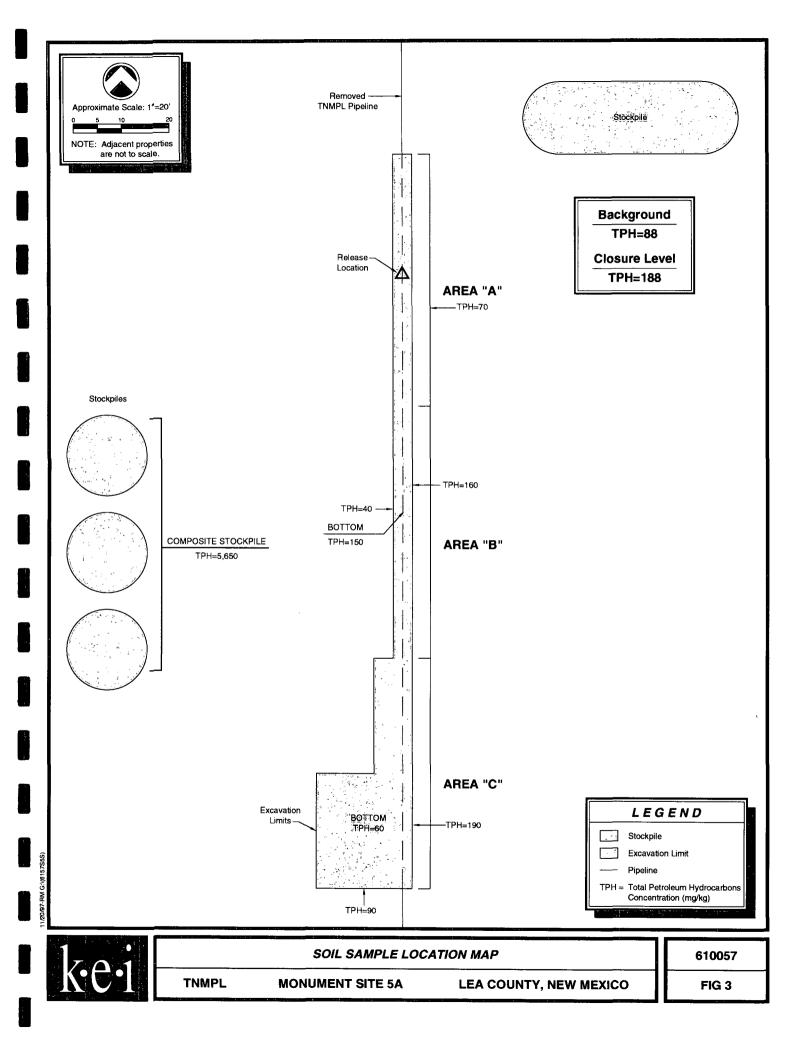
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GENERAL NOTES

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

--- - Indicates sample was not analyzed for specified constituent.

Method detection limits:

Soil:		10 mg/kg 0.100 mg/kg
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 5A 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 Sampling		· · · ·					
Excavation Bottom Area "A"	05/30/97						1,220
West Side Wall Area "A"	05/30/97						5,800
East Side Wall Area "A"	05/30/97						2,380
North Side Wall Area "A"	05/30/97						5,500
West Side Wall Area "B"	05/30/97						480
Excavation Bottom Area "C"	05/30/97						320
West Side Wall Area "C"	05/30/97						3,380
East Side Wall Area "C"	05/30/97						2,000
South Side Wall Area "C"	05/30/97						1,140
North Side Wall Area "A"	06/05/97						970
West Side Wall Area "A"	06/05/97						1,730
East Side Wall Area "A"	06/05/97						340
Excavation Bottom Area "A"	06/05/97						350
West Side Wall Area "C"	06/05/97						870
East Side Wall Area "C"	06/05/97						300
South Side Wall Area "C"	06/05/97						1,230
Excavation Bottom Composite	06/11/97						830
North Side Wall Composite	06/11/97						4,390
Soil Characterization Sampling	•	.	*******	· · · · · · · · · · · · · · · · · · ·		•	•
Stockpile	03/03/97						5,650
Point of Release	03/03/97						860
Center of Runoff	03/03/97						710
Pool Area	03/03/97						750
Background Sampling			•				
Background	05/28/97	****					88

TABLE I (continued)

SUMMARY OF LABORATORY RESULTS - SOIL EXCAVATION ACTIVITIES MONUMENT SITE 5A 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)
Confirmation Sampling							
East Side Wall Comp. Area "A"	06/11/97	ND	ND	ND	ND	ND	70 ⁽²⁾
Excavation Bottom Area "B"	05/30/97	ND	0.255	ND	0.154	0.405	150
East Side Wall Area "B"	05/30/97	ND	0.107	ND	0.122	0.229	160
West Side Wall Area "B"	06/05/97	ND	0.106	ND	ND	0.106	40 ⁽¹⁾
Excavation Bottom Area "C"	06/05/97	ND	ND	ND	ND	ND	60 ⁽¹⁾
South Side Wall Area "C"	06/11/97	ND	0.118	ND	ND	0.118	90 ⁽¹⁾
East Side Wall Area "C"	06/11/97	ND	ND	ND	ND	ND	190 ⁽¹⁾

NOTES:

1. Indicates the retest of excavation sample collected May 30, 1997 following overexcavation of additional soils.

 Indicates the retest of excavation sample collected May 30, 1997 and June 5, 1997 following overexcavation of addition soils.

"Don't Treat Your Soil Like Dirt!"

KEI

ATTN: MR. PAUL HARTNETT 5309 WURZBACH SUITE 100 SAN ANTONIO, TEXAS 78238 FAX: 210-680-3763 FAX: 505-390-1246 TONY SAVOIE

Receiving Date: 03/05/97 Sample Type: SOIL Project : # 610057.05A Project Location: MONUMENT, NM Analysis Date: 03/05/97 Sampling Date: 03/03/97 Sample Condition: Intact /Iced

P.01

ELT#	FIELD CODE	TPH DE mg/kg		
10372	POINT OF RELEASE	860		
10373	CENTER OF RUNOFF	710		
10374	POOL AREA	750		
10375	STOCKPILE (COMPOSITE)	5,650		

QUALITY CONTROL	
TRUE VALUE	
% PRECISION	

207 208 100

Methods: EPA 418.1

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3-7.97



"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 5A PROJECT LOCATION: MONUMEN, N.M ANALYSIS DATE: 05/28/97 SAMPLING DATE: 05/28/97 SAMPLE CONDITION: intact/iced

		ТРН	
ELT# F	FIELD CODE	 (mg/kg)	·

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QUALITY CONTROL TRUE VALUE % PRECISION 265 256 104

Methods: EPA 418.1

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Michael R. Fowler

28-97 Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1800 • Fax (915) 563-1713

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

RECEIVING DATE: 05/30/97 SAMPLE TYPE: SOIL PROJECT #: 5-A PROJECT LOCATION: MONUMENT-LEA CO., N.M. ANALYSIS DATE: 05/30/97 SAMPLING DATE: 05/30/97 SAMPLE CONDITION: Intact/Iced

		TPH	
ELT#	FIELD CODE	(mg/kg)	
11293	970530-5A AREA "A" BOTTOM HOLE	1,220	
11294	970530-5A AREA "A" W. SIDE WALL	5.800	
11295	970530-5A AREA "A" E. SIDE WALL	2.380	
11296	970530-5A AREA "A" N. SIDE WALL	5,500	
11297	970530-5A AREA "B" BOTTOM HOLE	150	
11298	970530-5A AREA "B" W. SIDE WALL	480	
11299	970530-5A AREA "B" E. SIDE WALL	160	
11300	970530-5A AREA "C" BOTTOM HOLE	320	
11301	970530-5A AREA "C" W. SIDE WALL	3,380	
11302	970530-5A AREA "C" E. SIDE WALL	2,000	
11303	970530-5A AREA "C" S. SIDE WALL	1,140	

QUALITY CONTROL	229
TRUE VALUE	232
% PRECISION	99

Methods: EPA 418.1

Michael R. Fowler

5-30.97

Date

"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: 505-3952636 FAX: 915-682-4182

Receiving Date: 05/30/97 Sample Type: SOIL Project #: 5-A Project: Name: TNM 5-A Project Location: MONUMENT-LEA CO. N.M.. Analysis Date: 06/03/97 Sampling Date: 05/30/97 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)	
	970530-5aA Area B Bottom Hole 970530-5A Area B E. Side Wall	<0.100 <0.100	0.255 0.107	<0.100 <0.100	0.154 0.122	<0.100 <0.100	

% IA	98	98	99	95	98
% EA	99	100	100	97	99
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030

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Michael R. Fowler

6-4-97 Date

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"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: 505-3952636 FAX: 915-682-4182

Receiving Date: 06/05/97 Sample Type: SOIL Project #: TNMPL SITE 5A Project Location: MONUMENT, NEW MEXICO Analysis Date: TPH 06/05/97 Analysis Date: BTEX 06/06/97 Sampling Date: 06/05/97 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)
11392	06-05-97 N. Wall Area A						97 0
11393	06-05-97 W. Wall Area A						1.730
11394	06-05-97 E. Wall Area A						340
11395	06-05-97 B.H. Area A						350
11396	06-05-97 W. Wall Area B	<0.100	0.106	<0.100	<0.100	<0.100	40
11397	06-05-97 BH Area C	<0.100	<0.100	<0.100	<0.100	<0.100	60
11398	06-05-97 W. Wall Area C						870
11399	06-05-97 E. Wall Area C						300
11400	06-05-97 S. Wall Area C						1230

% IA	111	105	102	100	101	99
% EA	120	112	110	108	109	119
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030,EPA 418.1

<u>6-6-9</u>7 Date

Project Manusers RANDY OFFIELD		 -	i t	I F	hone #	• 9 9	15/ 15/	/68 /68	2-3 2-4	54 18	7 2						ANA	LYS	315 R	EQU	IEST						
Company Name & Address: ALLLSTATE SERVICES ENVIR	ONMEN	ITAL	, M	11[1D,	TE	EXA	S								T										
roject #: TNMPL Site 5A				I	Project	Name	::								Cr Pb Hg Se												
Project Location:				5	Sample	r Sign	ature	:							- 1 4												1
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LAB # FIELD CODE	CONTAINERS	Volume/Amount	WATER		AIR SLUDGE	OTHER	HCL	HNO3	NONE	OTHER	DATE	TIME	BTEX 8020/	TPH 418.1	TCLP Melais	Total Metals ny na ma	TCLP Volatiles	TDS	RCI								
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11397 06-05-97 BH AREA C	1			7					1		6-5-97		∇Z	1								\perp				-	
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TEXAS NEW MEXICO PIPE LINE ATTN: MR. TONY SAVOIE P.O. BOX 1030 JAL, NEW MEXICO 88252 FAX: 505-395-2636

Receiving Date: 06/12/97 Sample Type: SOIL Project #: TNM SITE 5A Project Location: MONUMENT, NEW MEXICO Analysis Date: 06/12/97 Sampling Date: 06/11/97 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)
							000
11470	06-11-97-BH COMP						830
11471	06-11-97 E. WALL COMP	<.100	<.100	<.100	<.100	<.100	70
11472	06-11-97 N. WALL COMP						4,390
11473	E. WALL COMP AREA 'C' 06-11-97	<.100	<.100	<.100	<.100	<.100	190
11474	S. WALL COMP AREA 'C' 06-11-97	<.100	0.118	<.100	<.100	<.100	90

% IA	97	89	86	84	87	99
% EA	125	120	117	114	116	90
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: EPA 418.1, SW 846-8020,5030

Raland K. Juli.

6-13-97 Date

Project Manager: Phone #: 9					2	915/682-3547					ANALYSIS REQUEST											_							
RANdy OFFIEld FAX#: 915/682-4182																		<u> :</u>											
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LAB #	FIELD	CODE	# CONTAINERS	Volume/Amount	WATER	SOIL	SLUDGE	OTHER	HCL	ICE	NONE	DTHER	DATE	TIME	BTEX 8020/5030	TPH 418.1	TCLP Metals Ag	Total Metals Ag As Ba	TCI P Semi Vol		RCI								!
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1/1/10 10-12-97				10:20 Am monuver the						+4 2	×	10	o /	Th	R	Ч п	/)	37	E>	K •									
linquished	<u>, , 1. (</u>	Date:		Times: Received by Laboratory:															•										
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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 Coll Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: I Non-Exempt: A 7 2 Rizin	4. Generator TNMPLCC,
Verbal Approval Received: Yes 📝 No 🛄	5. Originating Site 5 A
2. Management Facility Destination C+C LondForm Inc	6. Transporter Turner
3. Address of Facility Operator P.C. Bur 55	8. State N, M.
7. Location of Material (Street Address or ULSTR) Site 5A	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job. (B) All requests for approval to accept non-exempt wastes must be accordenerator. (B) All requests for approval to accept non-exempt wastes must be accordenerator. (B) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes must be accordenerator. (C) All requests for approval to accept non-exempt wastes. (C) All transporters must certify the wastes delivered are only those consigned. (E) BRIEF DESCRIPTION OF MATERIAL: (E) Hydro Carbon AFFected Scill. (E) Monordenerator. (E) All transporters must certify the wastes of the constant. (E) All transporters must certify the wastes delivered are only those consigned. (E) All transporters must certify the wastes delivered are only those consigned. (E) All transporters must certify the wastes delivered are only those consigned. (E) All transporters must certify the wastes delivered are only those consigned. (E) All transporters must certify the wastes delivered are only those consigned. (E) All transporters must certify the wastes delivered are only those consigned. (E) All transporters must certif	CUU CUL
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APPROVED BY:	E i itala
APPROVED BY: TITLE: FLOW	[2451 DATE: 4/24/91
APPROVED BY:	DATE:

TEXACO	NON-I	AZARDOUS	WASTE	MANIFEST

	COMPANY NAME	FACILITY NAME	ADDRESS	PHONE NUMBER	PHONE NUMBER						
GENERATOR	Texas-New Mexico Pipeline	P.O. Box 1030 Jal, New Mexico 88	3252								
TRANSPORTER 1	Turner Trucking	vy.									
TRANOPORTER 2		2									
DISPOSAL BITE	X C&C Landfarm										
U.S. DOT DESCRIPT hereand enter	10N fincluding Proper Shipping Name, Hazard Ir an accurate waste description in the space b	Class, ID Number, and Packaging Group from DOT Tab elow (e.g. Crude Oli Production Tank Boltom Liquids)	le); If not DOT regulated, check	CONTAINERS No. & Type	TOTAL QUANTITY	UNIT9(WT.or VOL.)					
ŀ	Hydrocarbon contaminated soil 31–12/yd.										
This is to certify the	t the above-named materials are properly class	lified, deecribed, and packaged, and are in proper condi	tion for transportation and disposal acc	ording to the applicable re	guiations of the Departm	ent of Transportation.					
GENERATOR	NAME(Print)	SIGNATURE	DATE								
	-New Mexico Pipeline										
TRANSPORTER 1 Turne:	r Trucking	01.7	/								
TRANSPORTER 2											
FACILITY NAME	DISPOSAL FACILITY OWNER OR OPERATOR CERTIFICATION OF RECEIPT FACILITY NAME NAME(Print) BIGNATURE DATE DATE DISPOSAL BITE COMMENTS /EXCEPTIONS C&C Landfarm JIMT Coopen										
ADDITIONAL INFORMATION											
1											