1R - <u>133</u>

REPORTS



District Production District Product Property Construction District Product Prod Product Prod Product Product Product Product Product P	Submit 3 Copies to Appropriate District Office	State of New Energy, Minerals and Natural	Mexico Resources Department	- Form C-103 Revised 1-1-89	,
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CONDITIONS OF APPROVAL, # ANY

TEXAS-NEW MEXICO PIPE LINE COMPANY CLOSURE SUMMARY

LEGAL DESCRIPTION SEC.18, T-25-S, R-36-E TNM SPILL REFERENCE NO. TNM-96-21 DATE OF LOSS 6-6-96

SURFACE AREA AFFECTED 8208 Square feet.

EXCAVATION DEPTH 10 ft. to 16 ft.

CUBIC YARDS EXCAVATED 4,256

HAZARDOUS WASTE DETERMINATION 6-10 AND 6-19-96 TCLP METALS (PPM) AG AS BA CD CR HG PB SE < .002 .04 < .005 <.05 <.002 <.002 1.2 <.10 **IGNITABILITY (DEG F)** >140 F TOXICITY (MG/KG) BENZENE TPH TOLUENE **EHYLBENZENE M.P.-XYLENE O-XYLENE** .189 < 100 1.750 5.428 3.365 15,700 DEPTH TO GROUND WATER 180.90 FT. DISTANCE TO SURFACE WATER GREATER THAN 1 MILE DISTANCE TO WATER WELL GREATER THAN 1 MILE TOTAL RANKING 0 BOTTOM HOLE SAMPLES DEPTHS COMPOSITE AT 10 TO 16 FT. TOXICITY (MG/KG) BENZENE TOLUENE EHYLBENZENE M.P.-XYLENE **O-XYLENE** TPH <.100 <.100 <.100 < 100 < 100 <10 SIDE WALL SAMPLES TOXICITY (MG/KG) TPH BENZENE TOLUENE **EHYLBENZENE** M.P.-XYLENE **O-XYLENE** <.100 <.100 < 100 < 100 < 10050 **BACKFILL MATERIAL** SAMPLE I.D. TPH (PPM) DATE J1 7/12/96 11,200 ć¢ J2 11,450 44 J3 12,450 •• 8,140 J4 J5 66 8,540 " J6 3,460 44 4,590 J7 •• J8 5,100

J9

TOTAL AREA INVOLVED IN BLENDING AND REMEDIATION 65,000 SQ. FT.

4,160

66

SAMPLE I.D. DATE 7/19/96	TPH (PPM)	DATE 7/23	/96	
A-1	4,740			
B-1	7,210			
C-1	4,440		Х	PLACED BACK INTO EXCAVATION
D-1	8,800	3,120	Х	PLACED BACK INTO EXCAVATION
E-1	650		Х	PLACED BACK INTO EXCAVATION
F-1	8,270	4,220	Х	PLACED BACK INTO EXCAVATION
G-1	1,030			
H-1	7,700			
I-1	1,090		Х	PLACED BACK INTO EXCAVATION
J-1	920		Х	PLACED BACK INTO EXCAVATION
K-1	3,020		Х	PLACED BACK INTO EXCAVATION

TOTAL AREA INVOLVED 96,180 SQ. FT.

A-1, B-1,G-1, H,1 BECAME QUAD 1,2,3,4

SMAPLE I.D.	DATE 8/5/96	TPH(PPM)	DATE 8/8/96	8/12/96	8/13/96
QUAD 1-B		7,210	5,730	6,660	4,830
QUAD 2-B		5,720	5,900	1,990	
QUAD 3-B		6,150	5,540	3,070	
QUAD 4-B		5,680	6,220		

ALL THE SOIL WAS THEN PLACED BACK INTO THE EXCAVATED AREA AND THE AREA BROUGHT BACK TO A NATURAL GRADE.

3. a. 2 annie

John A. Savoie November 22, 1996 TNMPLCO.

EW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMEN

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

NMOCD INTER-OFFICE CORRESPONDENCE

TO:

Wayne Price-Environmental Engineer //////// From:

Date:

Reference: TNMPL 96-21 crude oil pipeline spill sec 13-Ts 25s-R36e .75 mi NW of Jal, NM.

Request for verbal permission to start remedial Subject: actions due to possible rain.

Comments:

Tony Savoie supplied analyticals to verify stock piles are nonhazardous. TNMPL is planning to clean-up per NMOCD guidelines and will submit a final closure report per the guidelines on a C-103 upon completion of job.

Jerry Sexton-NMOCD District I Supervisor cc: Bill Olson-NMOCD Hydrogeologist-Environmental Bureau

attachments-yes in file

06-11-96 09:52AM FROM NM ATE ENGINEERS

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	J <u>AN 0</u> 7, 1975 2	23.77	MAR 26, 1	981 189.50	MAR 18, 1986	185.10	June 4, 199	1 . 180	,40
1	DATE: 12/04/95	HIGHEST Lowest	185.10 223.77 P	MAR 18, 1986 JAN 07, 1975 Rovisional Groun	DWATER DATA LEA C	OUNTY.	-	AGE1186	•
4	SITE ID: 320834 LOCATION: 255.3 OTHER ID: 1160' ELEVATION: 320 USE: U DEPTH: 8 GEG. UNIT: 110	4103132501 36E.12.123142 9 07.30 0 Avmb	2					ŗ	
			WATER	LEVELS IN FEET	BELDW LAND SURFAC	E DATUM			
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	NDV 30, 1964	57.37	NBV 30,	1965 57.37	MAR 27, 1968	36,22	DEC 09, 1970	58.56	
		HIGHES LOWES	56.22 57 58.56	MAR 27, 1968 DEC 09, 1970					•
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	SITE ID: 32	075210315350	1						

P02

State Of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION Form C-103 Item 12. Proposed or Completed Operations TNM 96-21

In accordance with NMOCD Guidelines for Remediation of Leaks, Spills and Releases, Section VI.A.1. Soil Remediation, Texas-New Mexico Pipeline has excavated subject soil from the ground and field sampled for degree of contamination both in the excavated area and in the stockpiled material taken from the area of the release. Prior to excavation on 6-10-96, the following laboratory analyses were performed in order to characterize the site: BTEX & TPH SW 846-8020; EPA 418.1, TCLP Metals EPA SW 846-1131.7061,7760,7130,7190,7420,7471,7741; Ignitability EPA SW 846-1010 (see accompanying copies of lab reports).

Field screening for TPH was accomplished on 6-19-96 (after excavation) which indicated the bottom hole results at below 100 ppm. Samples were composited for laboratory confirmatories and are presently being run. Sidewalls were sampled and composited for lab confirmatories. Results to follow.

Stockpiles were also analyzed on site using a Mega TPH analyzer for TPH content. It was determined from field screening of representative samples that TPH levels range from 620 ppm to 13,040 ppm.

In accordance with NMOCD Guidelines for Remediation of Leaks, Spills and Releases, Section VI A.2.b.iii Alternative Methods, Texas-New Mexico Pipeline proposes in-situ remediation utilizing dozers and backhoes to push the contaminated material from the stockpiles to begin the aeration process in order to reduce BTEX levels. As material is moved and aerated it shall be taken to a staging area to be blended with clean soil on site to reduce TPH and BTEX values.

Samples shall be collected from the treated soil to determine when recommended soil remediation action levels have been reached. Laboratory confirmatory samples will follow.

When appropriate levels are established, the remediated soil will be placed back into

the original excavated area and the site shall be contoured, dressed and reseeded for closure.

5

ALLSTATE SERVICES

P.O. BOX 11322 MIDLAND, TEXAS 79702 OFFICE: (915) 682-3547 FAX: (915) 682-4182 October 4, 1996



RE: TNM 96-21 T-25-S, R-36-E, Sec. 18 Lea County, New Mexico

Gentlemen:

Allstate Services Environmental has completed excavation and remediation operations at the above indicated site on August 16, 1996. The purpose of this operation was to define and identify the hydrocarbon affected soils and to remediate said material in accordance with the provisions of the New Mexico Oil Conservation Division and the plan of action selected by the client.

HISTORICAL DATA

This site is located near Jal, New Mexico on privately owned land. A pipeline release apparently occurred on location and migrated Eastward from the point of origination in a pattern approximately 84' wide and 26' long near the pipeline, narrowing to about 12' wide and traveling another 102' to the East where it ponded, spreading out in an area about 50' X 96'.

FIELD SCREENING METHOD

The field screening method for TPH analyses was utilized in this investigation based on infrared absorption. Most materials have characteristic infrared spectra. It is possible to compute the concentration of each of the materials by measuring the intensity of the characteristic infrared absorption bands based on the Beer-Lambert law. The field screening procedure utilizes the EPA 418.1 method for TPH analysis and was accomplished with a Mega TPH analyzer. This was used for a qualitative check to determine the presence or absence of petroleum hydrocarbons in the subject soil.

An Environmental Company SOLIDIFICATION BIOREMEDIATION LAND FARMING SOIL SHREDDING Page Two TNM 96-21

REMEDIATION ACTIVITIES

On 6-10-96 the New Mexico One Call was made with a request for spotting underground pipelines and utilities. The Field Team and equipment were moved in on 6-11-96, lines were spotted and hand digging accomplished to expose subject pipelines and excavation began on 6-12-96.

Excavation was initiated at the origin of the release and continued to the East, following the migration of the material. The resulting contaminated soil was staged on site and on 6 mil plastic for later remediation. The excavated aperture measured approximately eleven to sixteen feet in depth overall. Surface dimensions varied over the site (see Appendix "A", Figure 1).

Once the contamination was removed, field screening was employed to identify the spots requiring additional excavation and those which would not exceed regulatory levels for petroleum hydrocarbon content in both the aperture and the stockpiles. See Appendix "A", Figures 2a & 2b.

Composite samples were gathered from the sidewalls and bottom hole as enumerated in NMOCD Guidelines for Remediation of Leaks, Spills and Releases; VI. Remediation, A. Soil Remediation, 1. Contaminated Soils, paragraph a). Laboratory analysis revealed TPH and BTEX levels well below regulatory requirements. See Appendix "A", Figure 3.

With excavation complete, the staged material was prepared for in situ remediation utilizing dozers and backhoes to push the contaminated soil from the stockpiles to begin the aeration process in order to reduce BTEX levels. As the material was moved and aerated it was blended with clean soil to reduce TPH and BTEX values.

On 7-11-96, composite soil samples were collected from the remediation area immediately to the Northeast of the pipeline and submitted for laboratory analysis. See Appendix "A", Figures 4a & 4b.

Laboratory results indicated some areas were below the 5000 ppm TPH requirements and some were above. High concentration areas J-1, J-2, J-3, J-4 and J-5 were again aerated, blended and applied in a lift of approximately 12"-24" over additional space adjacent to the excavated hole.

Again composite samples were gathered from the enlarged remediation site and submitted for laboratory analyses on 7-19-96. Map and lab results may be found in Appendix "A", Figures 5a & 5b. The areas of higher concentration were continuously aerated, blended and applied in a lift of approximately 12" to 18". On 7-23-96, composite sample were collected from D-2 and F-2 for lab analysis (see Appendix "A", Figure 5c). The material which was below action levels was used to start backfilling the excavated cavity (Segments C, D, E, F, I, J and K).

Page Three TNM 96-21

The remaining material was applied in a 12" lift over the remediation site, then aerated, blended and windrowed over a period of approximately 3-4 days. The area was divided into four quadrants and sampled on 8-5-96 (see Appendix "A", Figures 6a & 6b). Composite samples consisted of 24 aliquots per quad. Laboratory results were obtained on 8-6-96, indicating additional remediation was necessary.

Remediation activities on subject material subsequently continued for two days when composite samples were collected for laboratory analyses on 8-8-96. See Appendix "A", Figure 7. Remediation continued and composite sampling was done again on 8-12-96, see Figures 8a & 8b. Of the three areas sampled, two were below regulatory limits, Quads 2 & 3. The one remaining segment, Quad 1, was reworked and composite sampled on 8-13-96 when laboratory analysis resulted in acceptable levels of TPH in the remainder of the remediated material (Figure 9).

The remediated material was leveled and the site contoured to the surrounding topography. TNM-96-21 is considered remediated and closed as of 8-16-96.

APPENDIX "A"



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FIGURE 2a



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TNM96-21 FIELD SCREENING 6/19/96

2N	Sidewall - 2:25 p.m.	13,590 ppm
ЗN	S. Sidewall 10' FS - 3:05 p.m.	60 ppm
5N	Stockpile E 2:29 p.m.	10,000 ppm
6N	Bottom Hole 16' FS - 2:35 p.m.	20 ppm
6AN	Center Trench BH - 3:06 p.m.	20 ppm
7N	N. Sidewall - 3:04 p.m.	50 ppm
8N	W. of PPL 8 1/2' FS - 3:01 p.m.	80 ppm
9N	Stockpile E 2:30 p.m.	6,070 ppm
10N	Sidewall - 2:33 p.m.	30 ppm
10AN	Sidewall of Hot Material & Stockpile - 2:39 p.m.	10,080 ppm
11N	Stockpile N 2:40 p.m.	13,040 ppm
16N	Stockpile N.W 3:00 p.m.	620 ppm

FIGURE 3

ENVIRONMENTAL LAB OF $\langle \rangle$, Inc.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY ATTN: MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591 FAX: 915-682-4182

Receiving Date: 06/21/96 Sample Type; SOIL Project: TNM 96-21 Project Location: LEA CO. N.M.

Analysis Date: 06/24/96 Sampling Date: 06/21/96 Sample Condition: Intact/load

ELT#	FIELD CODE	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	m.p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TPH (mg/kg)
7781	TNM 96-21-96621-15	<0.100	<0.100	<0.100	<0.100	<0.100	50
7782	TNM 96-21-96621-28	<0.100	<0.100	<0.100	<0.100	<0.100	<10

% IA	03	00				
% FA	30	98	101	100	100	108
	85	83	93	97	97	105
DLANN	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030 , EPA 418.1

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Michael R. Fowler

<u>-24-96</u>

Relinquishe! b -: ">> e:	Y	Relinguished by All Martin Date:					1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	778 FULL 91-91-621-15	LAB # LAB # (LAB USE) (Sampic Site)	Project Locations Lea Po., N. H	Project #:	Project Name: TWH 91-0	Allstate Services Emin P.O. Box 11322 Mipland TEXAS 1970	Environmental Lab of Texas
Tlac:		Times:							Volume/Amount WATER SOIL AIR SLUDGE	Sampler S	· · ·		Dulmentel Promette	, Inc. 12600 West (915) 5
Received by Laboratory:	Rec ived by:	Received by							HCL HNO3 ICE NONE OTHER DATE	pratione			115) 682-3547 115) 682-4182	L29 East Odesra, Tezzs (63-1800 FAX (915) 563
		REMARKS							TIME BTEX 8(1)2(1/50 TPH 418.1 TCLP Metals Ag Total Metals Ag TCLP Volatiles TCLP Volatiles TCLP Semi Vola TDS RCI Field Elec ELEC. Con SAR Total CH Moistur PH PAH	As Ba Cd (As Ba Cd (Сг РЬ Ну г РЬ Ну (FEC) ; Se Se	ANALYSIS REQUEST	79763 L1713 CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

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TNM96-21 7/11/96

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J1	J6	J7	
J2	J5	J8	3 2 5'
J3	J4	J9	

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ENVIRONMENTAL LAB OF $\langle \rangle$, Inc.

"Don't Treat Your Soil Like Dirtl"

TEXAS NEW MEXICO PIPE LINE COMPANY MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591

RECEIVING DATE: 07/12/96 SAMPLE TYPE: SOIL PROJECT #: TNM 96-21 PROJECT NAME: TNM 86-21 PROJECT LOCATION: JAL, NM

ANALYSIS DATE: 07/15/96 SAMPLING DATE: 07/12/98 SAMPLE CONDITION: INTACT/ICED

ELT#	FIELD CODE	TPH (mg/kg)	
7929 7930 7931 7932 7933 7934 7935 7936 7937	J1 J2 J3 J4 J5 J6 J7 J8 J9	11,200 11,450 12,450 8,140 8,540 3,460 4,590 5,100 4,160	
	QUALITY CONTROL TRUE VALUE % PRECISION	808 880 - 92	

Methods: EPA 418.1

Muchael & Jande

7-15-96 Date





P.01



FIGURE 5a

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591

RECEIVING DATE: 07/19/96 SAMPLE TYPE: SOIL PROJECT #: TNM 96-21 PROJECT NAME: TNM 96-21 PROJECT LOCATION: LEA CTY, NEW MEXICO

ANALYSIS DATE: 07/22/96 SAMPLING DATE: 07/19/96 SAMPLE CONDITION: INTACT/ICED

		TPH							
ELT#	FIELD CODE	(mg/kg)							
			· .						
8022	960719 A-1	4,740	•						
8023	960719 B-1	7,210	•						
8024	960719 C-1	4,440							
8025	960719 D-1	8,800							
8026	960719 E-1	650							
8027	960719 F-1	8,270							
8028	960719 G-1	1,030							
8029	960719 H-1	7,700							
8030	960719 -1	1,090							
8031	960719 J-1	920							
8032	960719 K-1	3.020							
	QUALITY CONTROL	336							
	TRUE VALUE	306							
	% PRECISION	110							

Methods: EPA 418.1

CK Julio

7-22-96 Date

Rolling michael	Refine minined by:	Tang office	Reinquished by:	8032 96079 K	8031 960719 J	2010 9607/9 I	8029 960719 H.	3028 9607/9 5	3027 960719 F	3 612026 202	2013 9607196	224 960719 C	3023 960719 B.	BOEL 96 0719 A	LAB # FELD CC		LEACTY NO	Fraject Location:	TNM-96	Froject II:	ALLSTATE	Company Name & Address	TRIMPL	Project Manyer:	Environmental I
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"Don't Treat Your Soil Like Dirt!"

Figure SC

ANALYSIS DATE: 07/23/96

SAMPLING DATE: 07/23/96

SAMPLE CONDITION: INTACT/ICED

TEXAS NEW MEXICO PIPE LINE COMPANY MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591

RECEIVING DATE: 07/23/96 SAMPLE TYPE: SOIL PROJECT #: TNM 96-21 PROJECT NAME: TNM 96-21 PROJECT LOCATION: LEA COUNTY, NM

 TPH

 ELT#
 FIELD CODE
 (mg/kg)

 8089
 960723 D-2
 3,120

 8090
 960723 F-2
 4,220

QUALITY CONTROL TRUE VALUE % PRECISION 312 306 102

Methods: EPA 418.1

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7-23-96

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"Don't Treat Your Soil Like Dirt!"

Figure 6a

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

RECEIVING DATE: 08/06/96 SAMPLE TYPE: SOIL PROJECT #: TNM 96-21 PROJECT NAME: TNM 96-21 PROJECT LOCATION: NEAR JAL, NM

ANALYSIS DATE: 08/06/96 SAMPLING DATE: 08/05/96 SAMPLE CONDITION: INTACT/ICED

		ТРН
ELT#	FIELD CODE	(mg/kg)
8285	960805 QUAD 1-B	7,210
8286	960805 QUAD 2-B	5,720
8287	960805 QUAD 3-B	6,150
8288	960805 QUAD 4-B	5,680
	QUALITY CONTROL	854
	TRUE VALUE	888
	% PRECISION	96

Methods: EPA 418.1, 3550

Muchael Jack 8-6-96

Michael R. Fow

Relinquished by:	Relinquished by:	AMILINIS	Relinquished by:		¢A			8238 PLOROS - (8257 DW0805 - (2-2020710 9828	3285 9100805-	LAB # FIELD		NEAR JAL	Froject Location:	O TNM QL	Project #:	Allstate Ser	Company Name & Address:	RANAL OFFIC	Project Manager:	Environmental
Date:	Date	8-6-96	Date:					URA 4-B 1	Juan 3-B 1	UPD 2-B 1	Durad 1-B 11		ERS	NM	Х Х			VICES ENV.				Lab of Texas
Time:	Time:	9:35	Times:					X			× –	Volume/Amou WATER SOIL AIR SLUDGE OTHER	UCL MATRIX °	AND .	Sampler Sig		Project Nam	PAx +	のミナ	FAX #:	Phone #: (, Inc. 12600 West I- (915) 56
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FIGURE 6b

NORTH

TNM 96-21 Sketch Map of Remediation Area



ENVIRONMENTAL LAB OF , Inc.

Figure 7

TEXAS NEW MEXICO PIPE LINE COMPANY MR. JOHN A. SAVOIE P.O. BO X 1030 JAL, NM 88252 FAX: 505-395-2636

Receiving Date: 08/08/96 Sample Type: SOIL Project :TNM 96-21 Project Location: JAL, NM Analysis Date: 08/08/96 Sampling Date: 08/08/96 Sample Condition: Intact/Iced

		TPH	
ELT#	FIELD CODE	(mg/kg)	
8409	960808-2C	5,900	
8410	960808-3C	5,540	
8411	960808-1C	5,730	
8412	960808-4C	6,220	

QUALITY CONTROL	225
TRUE VALUE	22 0
% PRECISION	102

METHODS: EPA 418.1

P. Faeler Michoalk.

Michael R. Fowler

<u> 8-9-76</u> Date

Relinquished by: Date: /	Retinguished by: Date:				8412 960308 - HC	11 - 808091 1153	2410 460808-3C	2409 960308 - 2C	LAB # FIELD CODE	Froject Locator: Tall NM	Project #:	Kompany Kime & Address 00. AllSTate Selvic	Project Numper. Neddy & H.	Environmental Lab
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	r /: 20 R	 	 		 	<		<u> </u>	WATER SOIL AIR SLUDGE OTHER HCL	Sampier Signan	Project Name :	onmenta	Phone #: <i>Υ</i> / FAX #:	C. 12600 West I-20 (915) 563-:
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Figure 8A

TEXAS NEW MEXICO PIPE LINE COMPANY MR. JOHN A. SAVOIE P.O. BO X 1030 JAL, NM 88252 FAX: 505-395-2636

Receiving Date: 08/12/96 Sample Type: SOIL Project : TNM 96021 Project Location: LEA COUNTY N. MEXICO Analysis Date: 08/12/96 Sampling Date: 08/12/96 Sample Condition: Intact/Iced

		ТРН	
ELT#	FIELD CODE	(mg/kg)	
8453	QUAD 1 960812 COMP	6,660	
8454	QUAD 2 960812 COMP	1,990	
8455	QUAD 3 960812 COMP	3,070	

QUALITY CONTROL	220
TRUE VALUE	220
% PRECISION	104

METHODS: EPA 418.1

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Michael R. Fowler



Relinqui by: Date:	Relbquishei by: Date:	Relinquished by: Dates 8 - 12 9 1				3455 quad 3 560812 cont	1000 218006 2000 ACAR 4548	8453 Quad 1 960812 comp	LAB # FIELD CODE	Projections Left County N. 19	Project": TNN 96-21	Compary Name & Address: TNNN PC	Project Marger: PLLSTATE SERVICE	Environmental Lab of Te
Time:	Tance: Received by:	5 Times 1425 Received by: 1 Received by: 1425 Received by: 1425				1 2.12 103	1 1 1 1 1 1 1 1 5.12 1013		# CONTAINERS Volume/Amount WATER SOIL AIR SLUDGE OTHER HCL HCL HNO3 ICE NONE OTHER DATE TIME	Sampler Struments	Project Name :		Phone #: FAT #:	EAS, Inc. 12600 West 1-20 East Odessa, Texas 79763 (915) 563-1800 FAX (915) 563-1713
		ARKS 20 SAmples Per - Comp.							BTEX 8(1)2(1)/5(1)3) TPH 418.1 TCLP Metals Ag A Total Metals Ag As TCLP Volatiles TCLP Semi Volatile TDS RCI	 s Ba Cd (b Ba Cd C base base control of the second	Cr Pb Hg	Se Se	ANALYSIS REQUEST	CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST









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Figure 9

TEXAS NEW MEXICO PIPE LINE COMPANY MR. JOHN A. SAVOIE P.O. BOX 1030 JAL, NM 88252 FAX: 505-395-2636

Receiving Date: 08/14/96 Sample Type: SOIL Project : TNM 96-21 Project Location: JAL, NM Analysis Date: 08/14/96 Sampling Date: 08/13/96 Sample Condition: Intact /Iced

		ТРН
ELT#	FIELD CODE	(mg/kg)

8471 960813-QUAD 1-E

4,830

QUALITY CONTROL	302
TRUE VALUE	302
% PRECISION	100

METHODS: EPA 418.1

Michael R. Fowler

<u>8-14-96</u> Date

S, Inc. 1200 West 1-20 East Odersa, Tetas 79763 culturof Churtony RECORD AND ANALYSIS REQUEST (915) 563-1713 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546 Finestring 915 / 682 - 3546	Relinquished by: Date:	Relinquished by: Date:	tandra Charabel 2/14/9/	Relinquished by: Date:						6471 960813- QUAD 1-E	LAB # FIELD CODE	Froject Location:	Project #:	ALLLSTATE SERVICES ENVIRONM	Frojer Minister Handy Offield	Environmental Lab of Texa
L2D Eart Odessa, Texas 79763 CHAIN-OF-CUSTODY RECORD AND ANLYSIS REQUEST 915/682-3546 915/682-3546 915/682-4182 ANALYSIS REQUEST PRESERVATIVE S.M.P.LING INCEL INCERVATIVE INCERVATIVE S.M.P.LING INCERVATIVE INCERVATIVE INCERVAT	Time:	Time:	6.40	Time:						 <	# CONTAINERS Volume/Amounl WATER SOIL AIR SLUDGE OTHER	Sampler Si	Project Na TN	ENTAL, MIDLAND	Phone #: FAX #:	S, Inc. 12600 West] (915) 5
REMARKS	Received by Laboratory:	Received by:	1 Valandic 15	Received by:	·					VI B/L	HCL HNO3 ICE NONE OTHER DATE	mature: 16- Up NUUD	me: M96-21	, TEXAS	915/682-3546 915/682-4182	1-20 East Odessa, Texa 63-1800 FAX (915) 56
				REMARKS						3 15:20 1	TIME TIME TIME TIME TCLP Metals Ag // Total Metals Ag A TCLP SemI Volatiles TCLP SemI Volatil TDS RCI	As Ba Cd of s Ba Cd of s Ba Cd C	Cr Pb Hg cr Pb Hg S	5e	ANALYSIS REQUEST	as 79763 563-1713 Chain-of-custody record and analysis request



TEXAS NEW MEXICO PIPE LINE COMPANY ATTN: MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591 FAX: 915-682-4182

Receiving Date: 06/26/96 Sample Type: SOIL Project : TNM 96-21 N. Project #: TNM 96-21 N. Analysis Date: 06/26/96 Sampling Date: 06/19/96 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)
7798	TNM 96-21-COMP. PILE	<0.100	0.189	1.750	5.428	3.365	15,700

% IA	103	100	104	104	106	105
% EA	101	98	108	100	96	
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020,5030, EPA 418.1

Machael A. Jawler

Michael R. Fowler

6-27-<u>%</u> Date

STOCK Pile Stapples



TEXAS NEW MEXICO PIPE LINE COMPANY ATTN: MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591 FAX: 915-682-4182

Receiving Date: 06/26/96 Sample Type: SOIL Project : TNM 96-21 N. Project #: TNM 96-21 N.

Analysis Date: 06/26/96 Sampling Date: 06/19/96 Sample Condition: Intact/Iced

		IGNITABILITY	
ELT#	FIELD CODE	(deg F)	
7798 TI	NM 96-21-COMP. PILE	>140 F	

RPD

0

Method: EPA SW 846-1010

Mulicoul R. Torular Michael R. Fowler

6.20-96 Date

STOCK PILE SAMPLE

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ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TEXAS NEW MEXICO PIPE LINE COMPANY ATTN: MR. JOHNNY CHAPMAN P.O. BOX 1018 EUNICE, NM 88231 FAX: 505-394-2591

TCLP METALS (ppm)

Receiving Date: 06/10/96 Sample Type: SOIL Project : NORTH TNM 96-21 & SOUTH 96-20 Project Location: LEA COUNTY, N. MEX

Analysis Date: 06/13/98 Sampling Date: 06/10/96 Sample Condition: Intact/Iced

ELT#	Field Code	Aa	As	8a	Сн	Ċ	Ha	Ph	80
	EPALIMIT	5.00	5.00	100.0	1.00	5.00	0.20	5.00	1.00
7684 7685	N. TNM 98-21 S. TNM 98-20	0.04	<0.002 <0.002	1.2 0.7	<0.005 0.017	<0.05 0.05	<0.002 <0.002	<0.10 0.18	<0.002 <0.002
									*
MDL		0.02	0.002	0.50	0.005	0.05	0.002	0.10	0 .002
% IA % EA		98 96	89 83	97 79	99 98	109 80	101 120	103	92 86

METHODS: EPA SW 848-1311, 7061, 7080, 7760, 7130, 7190, 7420, 7471,7741

Michael R. Fowler

-14-20

Rellinguizhe' b -;	helingubhei by: Date:	Tal Office	Relinquished by: Date: C-76-90						7798 Jum 96-21- Comf. Ri	LAB # FIELD CODE (LAB USE) (Sample Site)		Lex Courty N. m.	Frejert Laculon	Project f:	Project Name: TND	Allstate Services Ex P.o. Box 11322 Mipland Texas M	Environmental Lab of Tex
Times: Ractived by Laboratory:	Tunca: Rec-itend by:	Kalancik has	Times: 1500 Received by:							# CONTAIN Volume/Amou WATER SOIL AIR SLUDGE OTHER HCL HNO3 ICE NONE OTHER DATE	R ATRIX PRESERVATIVE SAM	exico tars aflere	Sampler Signature:		96-21 SRN.	Nichimental Primet:(915) 682-3547 HX# (915) 682-4182	215, Inc. 12600 West 1-20 East Odessa, Texas (915) 563-1800 FAX (915) 563
		North Recesse	REMARUS Soil Pile Spondes Composite						X	TIME BTEX 8112 TPH 418 TCLP Metals TCLP Volat TCLP Semi TCLP Semi TCLP Semi TCLP Semi TOS RMU Z Field E ELEC C SAR Total MOIST MIPI PH	INSOUND	0 10 10 10 10 10 10 10 10 10 1	Cd C Cd C Cd C C Cd C C C C C C C C C C	се Рь Ну 7 Рь Ну 5 7 Рь Ну 5 7 Рь Ну (Fec)	33	ANALYSIS REQUEST	19763 -1713 CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

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Rellaquesd by:	Rellaquibed by:	Relinguished by: Day					1685 5. TNM 46	7684 N. TNIM QU	LAS# FELD CODE (LAB USE)		Lee Court	Project Location:	worth The	Project #;	TWMPL	Company Name & Address:	ALLSTATE SER ENU.	Froject Manager:	Environmental La
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Times	164	Time: / 7/0				 	 <u> </u>		Volume/An WATER SOIL AIR SLUDGE OTHER	MATRIX	tan	Sampler Signa	South Qu	Project Name			FAX#:	Phone #:	[nc. 12600 West 1-2 (915) 563
received by Laboratory:	Renchind by:	Rendred by: Calc. d L July		 			1 1 6/0	1 6/10	HOL HNO3 ICE NONE OTHER DATE	METHOD SAN	es alle		5-20						0 East Odesm, Texas -1800 FAX (915) 563
	<u> </u>	REMARKS					XXXX	V430XXXX	TIME BTEX 81) TPH 41 TCLP Mel TOTAL Mela TCLP Vol TCLP Ser TOS RCI <i>I</i> -G-1	211/51/3 8.1 tais Ag A als Ag A alis B ml Volatil	() (3 B5 () 5 B5 () 8 B5 () 8 B5 ()	2d (d C	Cr Pt	Hg Hg I	50 50		ALWING		79763 L1713 CHAIN-OF-CUSTODY RECORD AND AND
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