

64

Denny & Frost
EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR
PRODUCTION PIT CLOSURE

DEC 21 1998

PAN AMERICAN C #2E
Meter/Line ID - 93162

RECEIVED
JUL 2 1998

OIL CON. DIV.
PAGE 2

SITE DETAILS

Approved
Legals - Twn: 30 Rng: 12

Sec: 19

Unit: D

NMOCD Hazard Ranking: 30

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 05/04/94

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

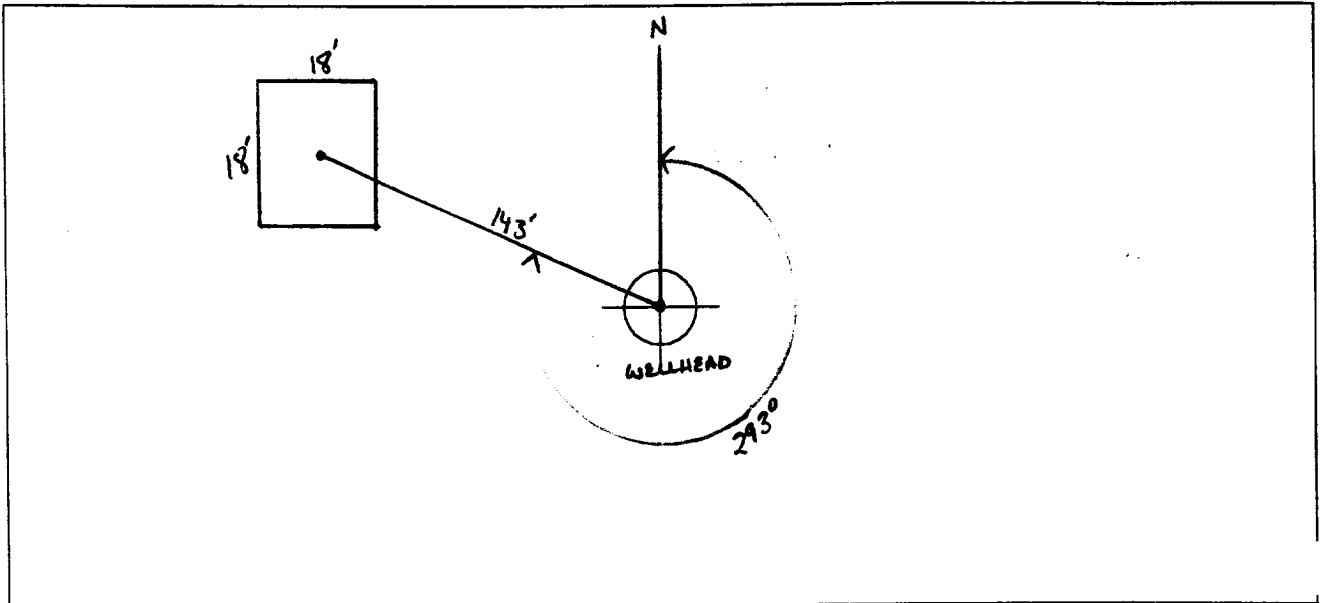


FIELD PIT SITE ASSESSMENT FORM

GENERAL	<p>Meter: <u>93162</u> Location: <u>PAN AMERICAN C #2E</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Amoco</u> P/L District: <u>KUTZ</u></p> <p>Coordinates: Letter: <u>D</u> Section <u>19</u> Township: <u>30</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____</p> <p>Site Visit Date: <u>3.22.94</u> Run: <u>02</u> <u>22</u></p>
	<p>NMOCD Zone: Inside <input type="checkbox"/> Land Type: BLM <input checked="" type="checkbox"/> (From NMOCD Vulnerable State <input type="checkbox"/> Maps) Zone <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Outside <input type="checkbox"/> Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> 50 Ft to 99 Ft (10 points) <input type="checkbox"/> Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/></p> <p>Wellhead Protection Area :</p> <p>Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ^{3.22.94} <input checked="" type="checkbox"/> YES (20 points) <input checked="" type="checkbox"/> NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/></p> <p>Name of Surface Water Body _____</p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>TOTAL HAZARD RANKING SCORE: <u>0</u> POINTS</p>
REMARKS	<p>Remarks : <u>LOCATION IS FENCED OFF. PIT TO CLOSE IS OUTSIDE FENCE. PIT IS DRY.</u></p>

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 293° Footage to Wellhead 143'
 b) Degrees from North _____ Footage to Dogleg _____
 Dogleg Name _____
 c) Length : 18' Width : 18' Depth : 4'



Remarks :

STARTED TAKING PICTURES AT 3:14 P.M.
END DUMP

Completed By:

Robert Thompson
 Signature

3.22.94
 Date

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>93162</u> Location: <u>PAN AMERICAN C-25</u> Operator # <u> </u> Operator Name: <u> </u> P/L District: <u> </u> Coordinates: Letter: <u> </u> Section: <u> </u> Township: <u> </u> Range: <u> </u> Or Latitude: <u> </u> Longitude: <u> </u> Pit Type: Dehydrator <u> </u> Location: Dip: <u> </u> Line Dip: <u> </u> Or <u> </u> Site Assessment Date: <u> </u> Area: <u> </u> Run: <u> </u>		
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside <input type="checkbox"/> (1) Outside <input type="checkbox"/> (2) Land Type: <input type="checkbox"/> (1) <input type="checkbox"/> (2) BLM: <input type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Inside <input type="checkbox"/> (4)		
	Depth to Groundwater: Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3) Wellhead Protection Area: Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? or is it less than 200 ft from domestic water source? <input type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points) Horizontal Distance to Surface Water Body: Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3) Name of Surface Water Body: <u>San Arroyo</u> (Surface Water Body: Perennial Rivers, Major Wash, Streams, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Narrow Pits Only) <input type="checkbox"/> (2) > 100'		
REMARKS	TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS		
	Remarks: <u> </u> <u> </u> <u> </u>		

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>93162</u> Location: <u>PAN AMERICAN C # 23 # 2E</u> <i>Ind 5/6/94 per S. Pope BEE</i></p> <p>Coordinates: Letter: <u>D</u> Section <u>19</u> Township: <u>30</u> Range: <u>12</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>5-4-94</u> Area: <u>02</u> Run: <u>22</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): ⁹⁴⁵⁰⁷³ <u>K.P. 19</u></p> <p>Sample Depth: <u>6'</u> Feet</p> <p>Final PID Reading <u>541</u> PID Reading Depth <u>6'</u> Feet</p> <p>Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (2) Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> (1) Approx. Cubic Yards <u>10</u></p> <p>Onsite Bioremediation <input type="checkbox"/> (2)</p> <p>Backfill Pit Without Excavation <input type="checkbox"/> (3)</p> <p>Soil Disposition:</p> <p>Envirotech <input type="checkbox"/> (1) <input checked="" type="checkbox"/> (3) Tierra</p> <p>Other Facility <input type="checkbox"/> (2) Name: _____</p> <p>Pit Closure Date: <u>5-4-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>ON LOCATION NO LINE MARKERS STARTED REMEDIATING</u></p> <p><u>PIT HIT SAND STONE SOIL SANDY PID 541</u></p> <p>_____</p> <p>Signature of Specialist: <u>Kelly Padilla</u></p>

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP19	945073
MTR CODE SITE NAME:	93162	N/A
SAMPLE DATE TIME (Hrs):	5/4/94	1425
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5/5/94	5/5/94
DATE OF BTEX EXT. ANAL.:	5/13/94	5/13/94
TYPE DESCRIPTION:	VC	Brown Coarse Sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.2	MG/KG	25			
TOLUENE	42	MG/KG	25			
ETHYL BENZENE	16	MG/KG	25			
TOTAL XYLENES	170	MG/KG	25			
TOTAL BTEX	229	MG/KG				
TPH (418.1)	940	MG/KG			2.10	28
HEADSPACE PID	541	PPM				
PERCENT SOLIDS	92.1	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

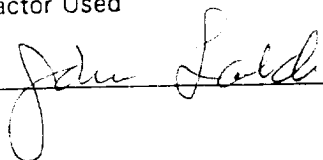
 The Surrogate Recovery was at 50 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached. Surrogate recovery was outside
 ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By:



Date:

7/14/94

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*****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
Perkin-Elmer Model 1600 FT-IR
Analysis Report
*****

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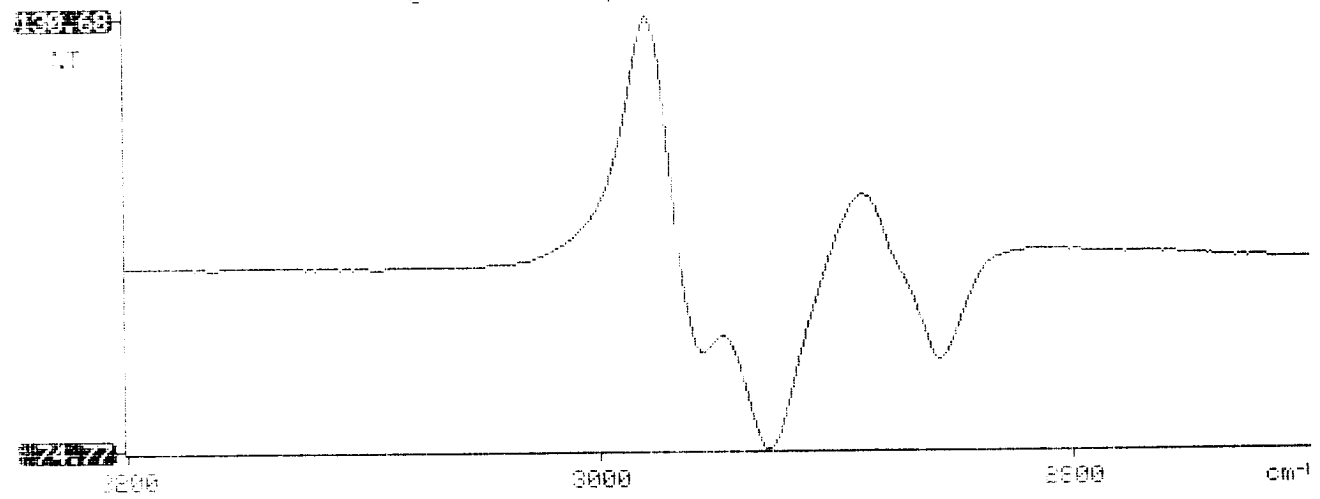
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#4700.00 13150
Sample Identification
#45077
Initial mass of sample, g
21.00
Volume of sample after extraction, ml
28.000
Petroleum hydrocarbons, ppm
940.112
Net absorbance of hydrocarbons (2930 cm-1)
0.121

```

/: Petroleum hydrocarbons spectrum

13:50





Analytical**Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 405331

May 19, 1994

El Paso Natural Gas Company
770 W. Navajo
Farmington, NM 87401

Project Name/Number: PIT PROJECT 24324

Attention: John Lambdin

On **05/06/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** and **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Upon arrival, it was noted that sample 945055 contained headspace. The client was notified and the sample was analyzed "as is."

The laboratory was instructed to correct the sampling data for sample 945075 to 05/04/94.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405331
PROJECT # : 24324
PROJECT NAME : PIT PROJECT

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
23	945072	NON-AQ	05/04/94	05/09/94	05/14/94	5
24	945073	NON-AQ	05/04/94	05/09/94	05/13/94	25
25	945074	NON-AQ	05/04/94	05/09/94	05/13/94	10
PARAMETER			UNITS	23	24	25
BENZENE			MG/KG	0.43	1.2	<0.25
TOLUENE			MG/KG	3.2	42	0.60
ETHYLBENZENE			MG/KG	0.7	16	2.8
TOTAL XYLENES			MG/KG	7.8	170	55

SURROGATE:

BROMOFLUOROBENZENE (%) 130* 50* 110

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location PAN American C#2E 93162

Elevation _____
Borehole Location T 30, R 12, S 19, D
GWL Depth _____
Logged By Jeff W. Kindley
Drilled By S. Smiden
Date/Time Started 09/25/95 0935
Date/Time Completed 09/25/95 1111

Well Logged By Jeff W. Kindley
Personnel On-Site D. Cholewy, D. Roberts, S. Smiden
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill material to 12 feet						
5										
10										
15	1	15-17	12 2.0	SW, BR SAND, Coarse-grained, Very dense, hydrocarbon odor, dry						44 / 75 1010 83 blows per Foot
20	2	20-22	16 2.0	S.A.A						74 / 63 1017 54 blows per Foot
25	3	25-27	14 2.0	S.A.A Boring terminated at 27 feet						0 / 24 1030 44 blows per Foot
30										
35										
40										

Comments:

B.H. grouted to the surface. Sample collected from 25 to 27 feet
Cork 23

Geologist Signature

Jeffrey Kindley





FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	Jwk83	947541
MTR CODE SITE NAME:	93162	Pan American C # 2E
SAMPLE DATE TIME (Hrs):	09-26-95	1030
PROJECT:	Rose II Mills	
DATE OF TPH EXT. ANAL.:	9-27-95	
DATE OF BTEX EXT. ANAL.:	9/27/95	9/27/95
TYPE DESCRIPTION:	VG	Light brown coarse sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	1.1	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	3.6	MG/KG				
TOTAL BTEX	4.7	MG/KG				
TPH (418.1)	RIB 30	MG/KG			1.98	28
HEADSPACE PID	24	PPM				
PERCENT SOLIDS	91.0	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at
Narrative:

97% for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By: _____

Date: _____

9-29-95



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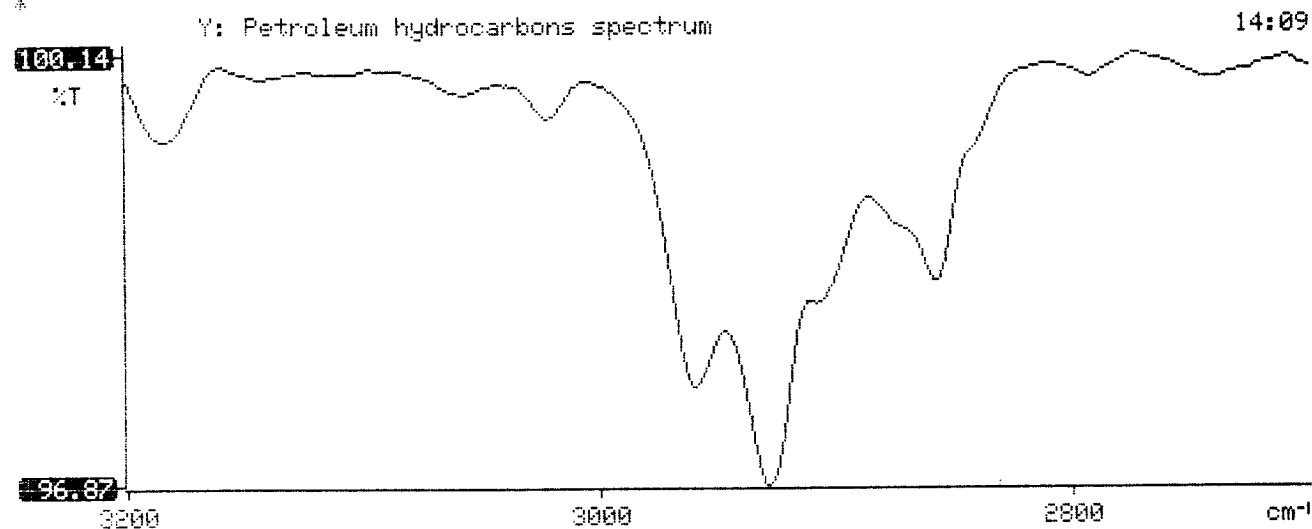
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report      *
*****

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*
* 95/09/27 14:08
*
* Sample identification
* 947541
*
* Initial mass of sample, g
* 1.980
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 29.006
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.014
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947541	Date Printed	:	9/28/95
Soil Mass (g)	:	5.12	Multiplier (L/g)	:	0.00098
Extraction vol. (mL)	:	10	DF (Analytical)	:	200
Shot Volume (uL)	:	50	DF (Report)	:	0.19531

				Det. Limit
Benzene (ug/L)	:	0.22	Benzene (mg/Kg):	0.043 0.488
Toluene (ug/L)	:	5.75	Toluene (mg/Kg):	1.123 0.488
Ethylbenzene (ug/L)	:	1.94	Ethylbenzene (mg/Kg):	0.379 0.488
p & m-xylene (ug/L)	:	15.00	p & m-xylene (mg/Kg):	2.930 0.977
o-xylene (ug/L)	:	3.65	o-xylene (mg/Kg):	0.713 0.488
			Total xylenes (mg/Kg):	3.643 1.465
			Total BTEX (mg/Kg):	5.188



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092795-0.015
 Method : C:\LABQUEST\METHODS\9000.MET
 Sample ID : 947541,5.12G,50U
 Acquired : Sep 27, 1995 23:44:45
 Printed : Sep 28, 1995 00:15:13
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.110	82830	0.2214
a,a,a-TFT	10.470	9388778	107.3177
TOLUENE	12.887	2055508	5.7489
ETHYLBENZENE	17.227	653491	1.9412
M,P-XYLENES	17.607	5867822	15.0364
O-XYLENE	18.777	1177602	3.6590
BFB	19.860	52841964	96.9433

