Jennifer L. Bust
DEPUTY OIL & GAS INSPECTOR

DEC 2 1 1998

Approved

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

MCCONNEL #6
Meter/Line ID - 74410

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

SITE DETAILS

Legals - Twn: 26 **Rng:** 09 **Sec:** 25 **Unit:** A
NMOCD Hazard Ranking: 20 **Land Type:** 4 - Fee
Operator: MERIDIAN OIL INC **Pit Closure Date:** 08/08/94

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

Meter: 74410 Location: McConnel No. 6
Operator #: 2999 Operator Name: Meridian P/L District: Ballard
Coordinates: Letter: A Section 25 Township: 26N Range: 9W
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6-24-94 Area: 11 Run: 8z

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☐ (1)
State ☐ (2)
Fee ☒ (3)
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☐ (1)
50 Ft to 99 Ft (10 points) ☒ (2)
Greater Than 100 Ft (0 points) ☐ (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 a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐ (1)
200 Ft to 1000 Ft (10 points) ☒ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body Blanco Wash
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)
Distance to Nearest Ephemeral Stream ☐ (1) < 100'(Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

REMARKS

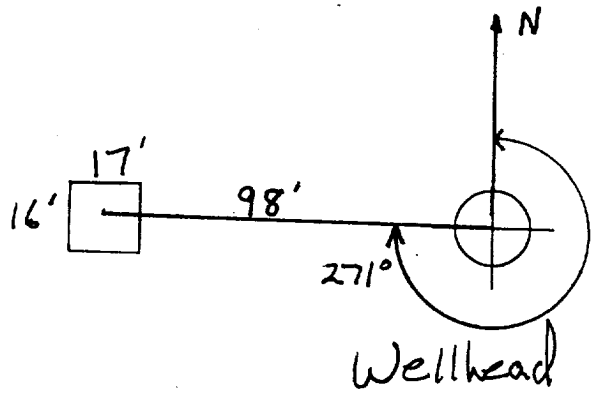
Remarks : Two pits on location. One drip pit next to well (operator), other drip pit is dry.
Inside V.Z. on Redline & Topo

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 271 Footage from Wellhead 98

b) Length : 17 Width : 16 Depth : 3



REMARKS

Remarks :

Photos - 1016 hrs

End dump

Completed By:

Signature

6-24-94

Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 74410 Location: MC CONNEL NO. 6

Coordinates: Letter: A Section 25 Township: 26 Range: 9

Or Latitude _____ Longitude _____

Date Started : 8-8-94 Run: 11 82

FIELD OBSERVATIONS

Sample Number(s): KP 171 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 143 PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 80

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 8-8-94 Pit Closed By: B & I

REMARKS

Remarks : Some LINE MARKERS STARTED Remediating TO 12' SOIL TURNED DARK gray. REAL SANDY At 12' SOIL Still the SAME. With A LIGHT SMELL. PID 143 SOIL still DARK GRAY LOOKING SAND. closed Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 171	945862
MTR CODE | SITE NAME:	74410	N/A
SAMPLE DATE | TIME (Hrs):	8-8-94	0930
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8-9-94	8-9-94
DATE OF BTEX EXT. | ANAL.:	8/11/94	8/11/94
TYPE | DESCRIPTION:	VC	Dark brown sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	0.089	MG/KG	1			
ETHYL BENZENE	0.11	MG/KG	1			
TOTAL XYLENES	0.56	MG/KG	1			
TOTAL BTEX	0.78	MG/KG				
TPH (418.1)	121	MG/KG			2.02	28
HEADSPACE PID	143	PPM				
PERCENT SOLIDS	94.4	%				

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

The Surrogate Recovery was at 99 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 9/2/94

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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

****

94/05/09 14:25

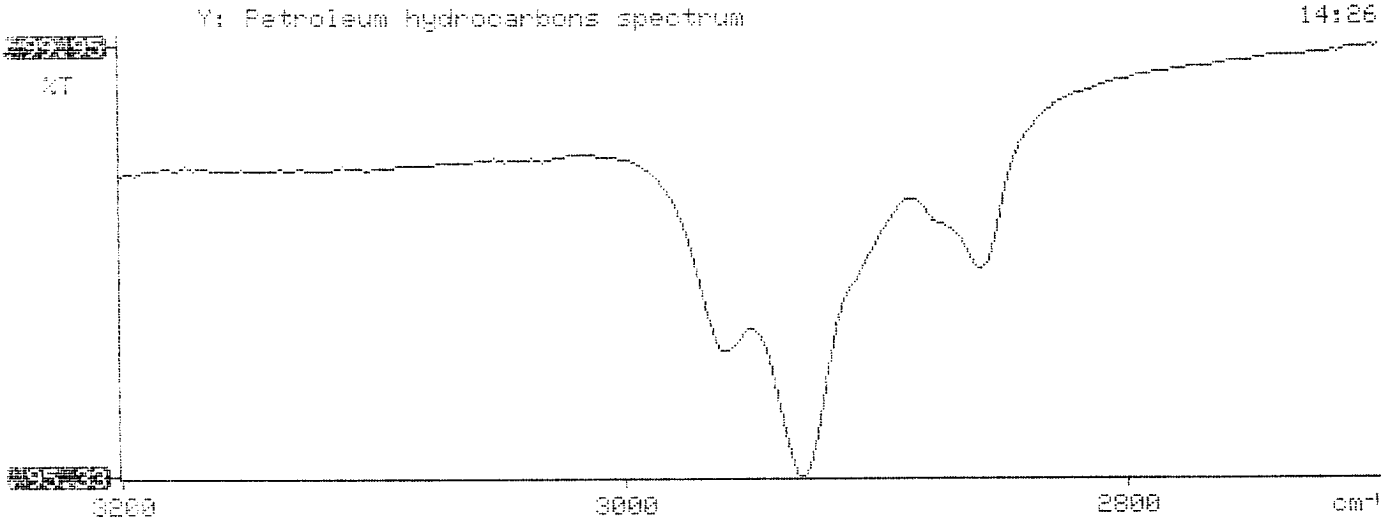
Sample Identification
945062

Initial mass of sample, g
2.020

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
120.703

Net absorbance of hydrocarbons (2930 cm-1)
0.016



Analytical Technologies, Inc.

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

ATI I.D. **408339**

August 25, 1994

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **08/10/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **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.

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:jt

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408339
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	945856	NON-AQ	08/05/94	08/11/94	08/11/94	1
14	945862	NON-AQ	08/08/94	08/11/94	08/11/94	1
15	945863	NON-AQ	08/08/94	08/11/94	08/11/94	10

PARAMETER	UNITS	13	14	15
BENZENE	MG/KG	<0.025	<0.025	2.8
TOLUENE	MG/KG	<0.025	0.089	61
ETHYLBENZENE	MG/KG	0.39	0.11	12
TOTAL XYLENES	MG/KG	5.0	0.56	130
SURROGATE:				
BROMOFLUOROBENZENE (%)		75	99	145*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 2

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

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location McConnel No. 6 74410

Elevation
Borehole Location T26N, R9W, S25, A
GWL Depth
Logged By Jeff W. Kindley
Drilled By G. Suddurth
Date/Time Started 08/15/95 1320
Date/Time Completed 08/15/95

Well Logged By Jeff W. Kindley
Personnel On-Site G. Suddurth, D. Roberts, H. Keith
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 BZ	BH	S/H	Drilling Conditions & Blow Counts
0				Backfill material to 12'						
5										
10										
15										
20	1	18-20	.7/2.0	SAND, gray, medium grained, loose, dry					101/131	1336
25	2	23-25	2.0/2.0	SAA					98/96	1344
30	3	28-30	.7/2.0	SAND, Black, medium to coarse grained, loose, dry					101/105	1352
35	4	33-35	.4/2.0	CLAY, gray, tight, dry					70/98	1402
40	5	38-40	.5/2.0	SAA					77/77	1420

Comments:

Geologist Signature Jeffrey Kindley

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 2 of 2

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

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location McCarnel No. 6 74410

Elevation
Borehole Location T26N, R9W, S25, A
GWL Depth
Logged By Jeff W. Kindley
Drilled By G. Suddath
Date/Time Started 08/15/95 1320
Date/Time Completed 08/15/95

Well Logged By Jeff W. Kindley
Personnel On-Site G. Suddath, D. Roberts, H Reif
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 BZ	BH	S	Drilling Conditions & Blow Counts
40										
45	6	43-45	.5/2.0	S,A,A					68/104	1439
50	7	48-50	.6/2.0	SAA					12/69	14 54
55	8	53-55	.5/2.0	S,A,A Boring terminated at 55'					8/6	1531
20										
25										
30										
35										
40										

Comments: Sample collected at 53 to 55'. BH grouted to the surface.

Geologist Signature Jeffrey Kindley

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK 15	947240
MTR CODE | SITE NAME:	74410	McConnel No. 6
SAMPLE DATE | TIME (Hrs):	08/15/95	15:31
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/17/95	8/17/95
DATE OF BTEX EXT. | ANAL.:	8/18/95	8/19/95
TYPE | DESCRIPTION:	V6	Light grey sand, clays & sandstones

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG		F		
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	34.8	MG/KG			2.0	28
HEADSPACE PID	6	PPM				
PERCENT SOLIDS	92.5	%				

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

The Surrogate Recovery was at 93% for this sample All QA/QC was acceptable.

Narrative: Benzene TAken from FID.

DF = Dilution Factor Used

Approved By: _____ Date: 8/24/95

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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                       *
**********************************************************
*
 95/08/17  10:46
*
*  Sample identification
 947240
*
*  Initial mass of sample, g
 2.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 34.776
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
*
*
*
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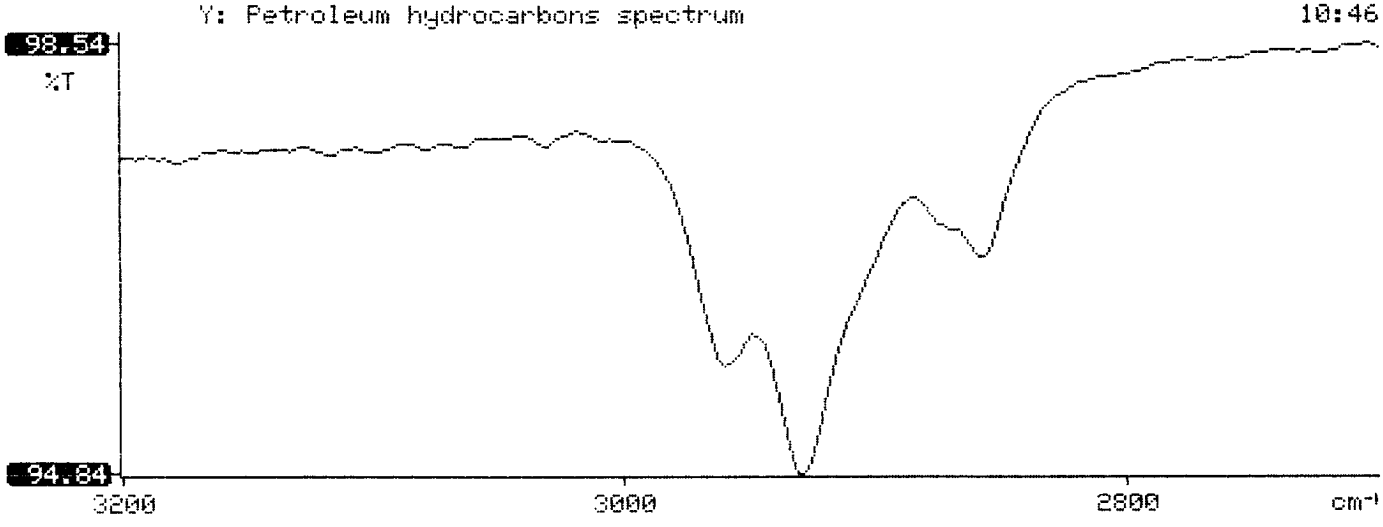


BTEX SOIL SAMPLE WORKSHEET

File	947240	**Date Printed**	8/23/95
Soil Mass (g)	4.99	**Multiplier (L/g)**	0.00100
Extraction vol. (mL)	20	**DF (Analytical)**	200
Shot Volume (uL)	100	**DF (Report)**	0.20040

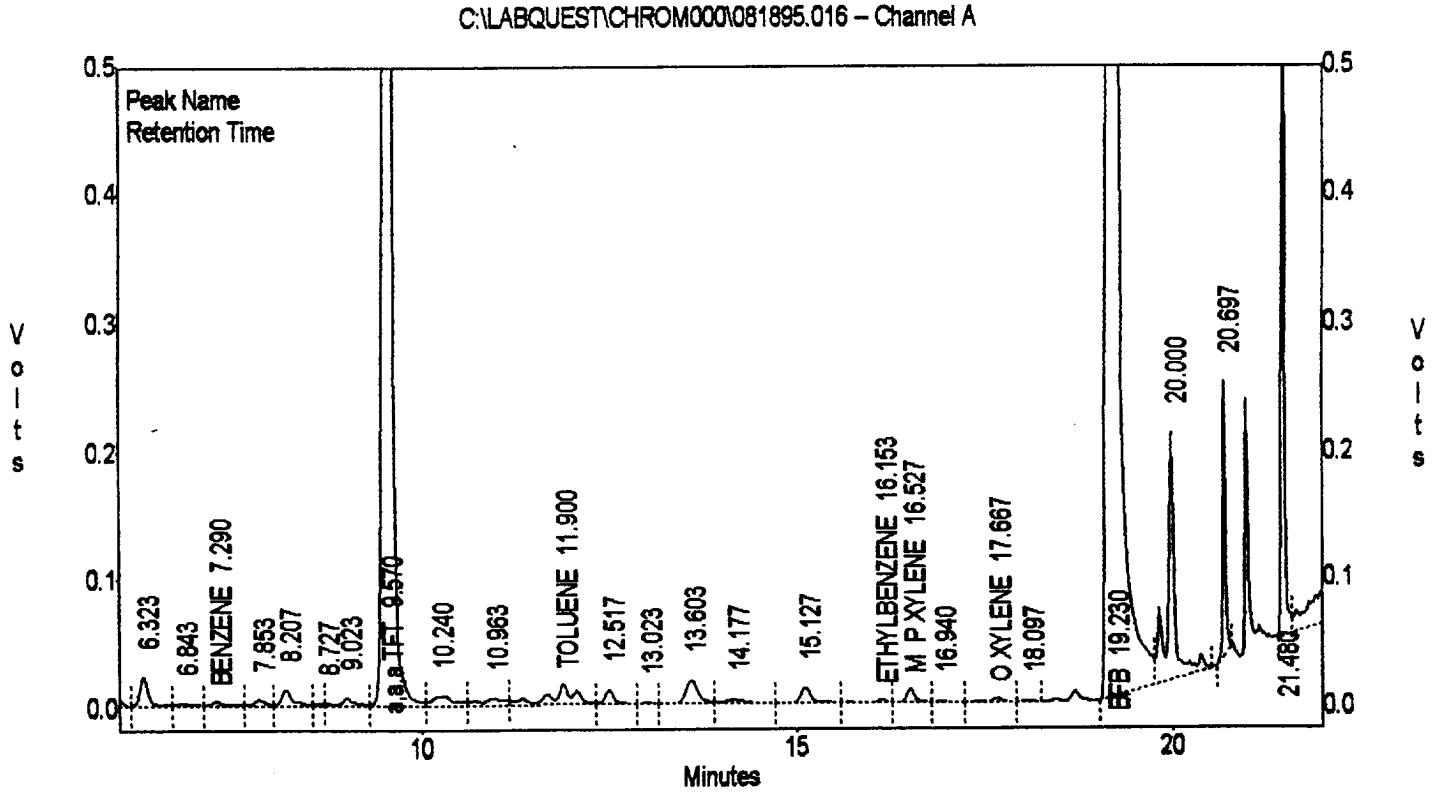
				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.501
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.501
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.501
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	1.002
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.501
		Total xylenes (mg/Kg):	**0.000**	1.503
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\081895.016
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947240,4.99G,100U
Acquired : Aug 19, 1995 02:41:16
Printed : Aug 21, 1995 14:06:24
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.290	42424	-2.3503
a,a,a TFT	9.570	9477141	96.1143
TOLUENE	11.900	349759	-0.0229
ETHYLBENZENE	16.153	34226	-0.2725
M & P XYLENE	16.527	90733	-3.0062
O XYLENE	17.667	41096	-0.1696
BFB	19.230	69303760	92.5372



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\081895.016
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947240,4.99G,100U
Acquired : Aug 19, 1995 02:41:16
Printed : Aug 21, 1995 14:06:32
User : MARLON

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.500	0	0.0000
a,a,a TFT	9.577	298736	97.8524
TOLUENE	11.893	0	0.0000
ETHYLBENZENE	16.120	0	0.0000
M & P XYLENE	16.497	0	0.0000
O XYLENE	17.637	0	0.0000
BFB	19.217	1568629	97.9426