Denny & Fount

Legals - Twn: 30

PRODUCTION PIT CLOSURE

NMOCD Hazard Ranking: 10

or

JOHNSON GAS COM D#1E Meter/Line ID - 94322 RECEIVED

SITE DETAILS

Rng: 12 **Sec:** 15

Unit: E

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 04/26/94

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.

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FIELD PIT SITE ASSESSMENT FORM

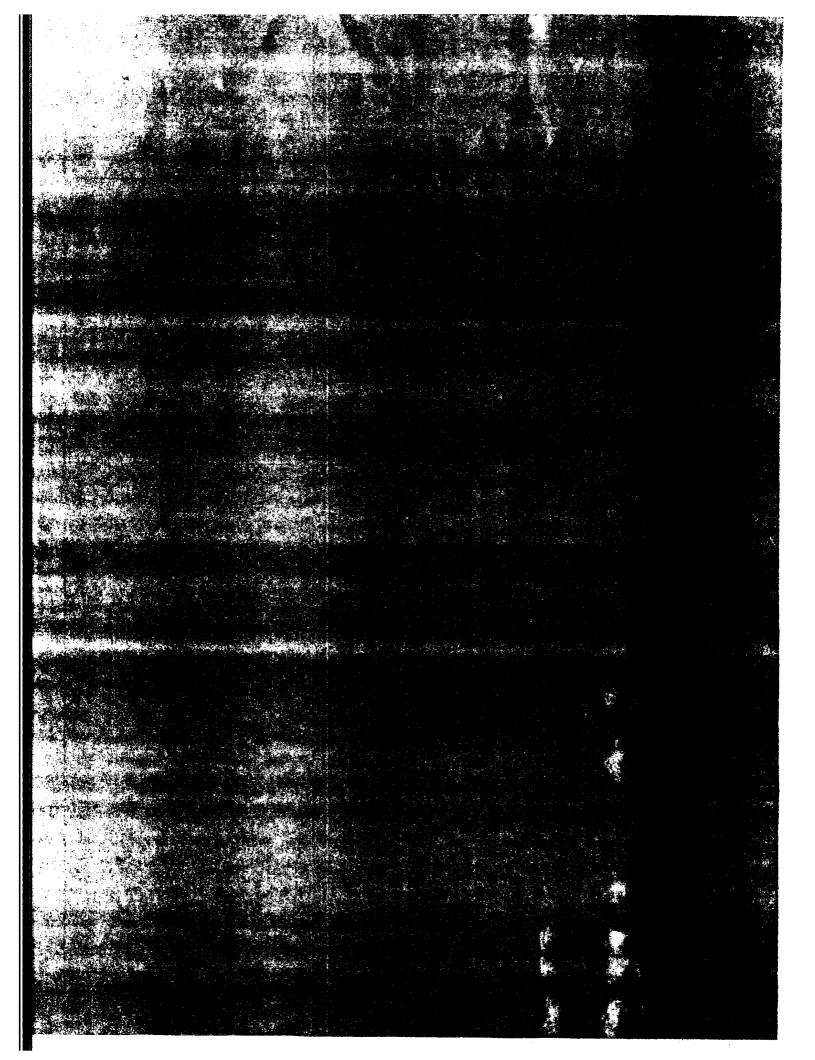
GENERAL	Meter: 94322 Location: JOHNSON GAS COM D # 1E Operator #: Operator Name: M.R. SCHALK P/L District: Kurz Coordinates: Letter:
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM ☐ (From NMOCD Vulnerable State ☐ Maps) Zone ☐ ☐ Fee ☐ Indian ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
REMARKS	Remarks: Two PITS ON LOCATION. WILL CLOSE ONLY ONE. LOCATION IS UP ON A HILL IN A SEMI- RESIDENTIAL ARE PIT IS DRY. (SP3190) 03

		ORIGINAL PIT LOCATION
	0	riginal Pit : a) Degrees from North 221° Footage to Wellhead 139′ Footage to Dogleg
		b) Degrees from NorthFootage to Dogleg Dogleg Name
NOI		Dogleg Name
ORIGINAL PIT LOCATION		15' 134' WELLHEAD 271
		Remarks: STARTED TAKING PICTURES AT 12:23 P.M.
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		Completed By: Signature 3.31-94 Date
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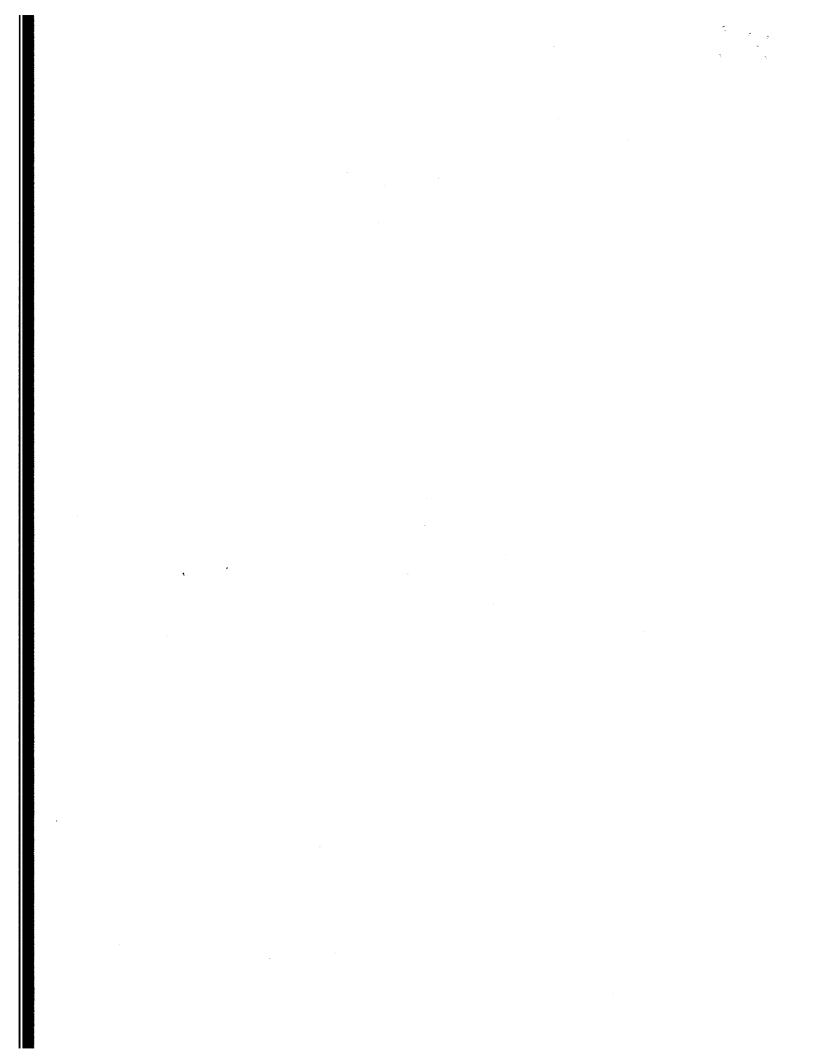
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PHASE I EXCAVATION



FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94322 Location: Johnson Grs Com D # 1 E Coordinates: Letter: E Section 15 Township: 30 Range: 17 Or Latitude Longitude Date Started: 4-26-13 Area: 02 Run: 63
LID OBSERVATIONS	Sample Number(s): KD 31 Sample Depth: 3' Feet Final PID Reading 272 ppm PID Reading Depth 3' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
i MARKS	Other Facility (2) Name: Pit Closure Date: 4-26.94 Pit Closed By: BET Remarks: Bottom of Pit was Pure Sandstone under approximately 6" of Soil, Bottom of Pit was Approximately 3' Below bround surface Took PID Reading closek Pit
	Signature of Specialist:

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FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

Field ID	Lab ID
KD31	945008
94322	JOHNSON GAS COM D #12
26-Apr-94	805
Phase	Excavation
Phase 4/28/94	Excavation 4/29/94
	KD31 94322

Field Remarks:	
Field Remarks:	

RESULTS

PARAMETER	RESULT	UNITS		QUALIFI	RS :	
			DF	.0	M(g)	V(m)
BENZENE	<0.20	MG/KG				
TOLUENE	1.09	MG/KG				
ETHYL BENZENE	0.73	MG/KG				
TOTAL XYLENES	8.05	MG/KG				
TOTAL BTEX	10.1	MG/KG				
TPH (418.1)	9,560	MG/KG			1.09	28.0
HEADSPACE PID	272	PPM				
PERCENT SOLIDS	92.2	%				

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

The Surrogate Recovery was at	68.4	% for this sample	All QA/QC was acceptable.	
Narrative:				

DF = Dilution Factor Used

Jalin Labor

Original: 5/21/94

Date: 4-print: 4/14/98

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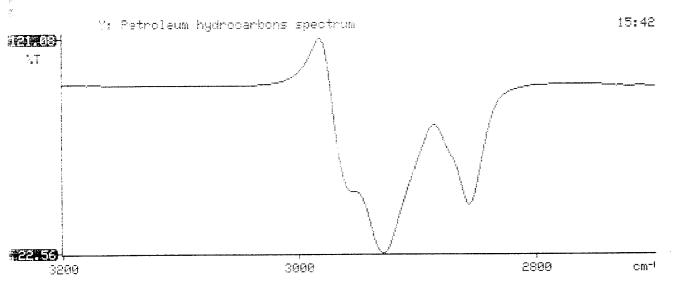
FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

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MTR CODE SITE NAME:	9432	<u>غ</u>	Ŋ	<u> </u>			
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SAMPLED BY:	·	N/F		Josep 1			
DATE OF TPH EXT. ANAL.:	4/28/	94	7	129194		ą.	
DATE OF BTEX EXT. ANAL.:			(2) =		e Sa	. A	
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TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG	ļ				P
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HEADSPACE PID	272	PPM			20 3 0		
COLIDS TURBO	92.2	%			14,235,334 A		
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Test Method for Cil and Orease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 94/04/28 15:42 Sample identification 745008 Initial mass of sample, g Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 9559.568 Met absorbance of hydrocarbons (2930 cm-1) 0.646



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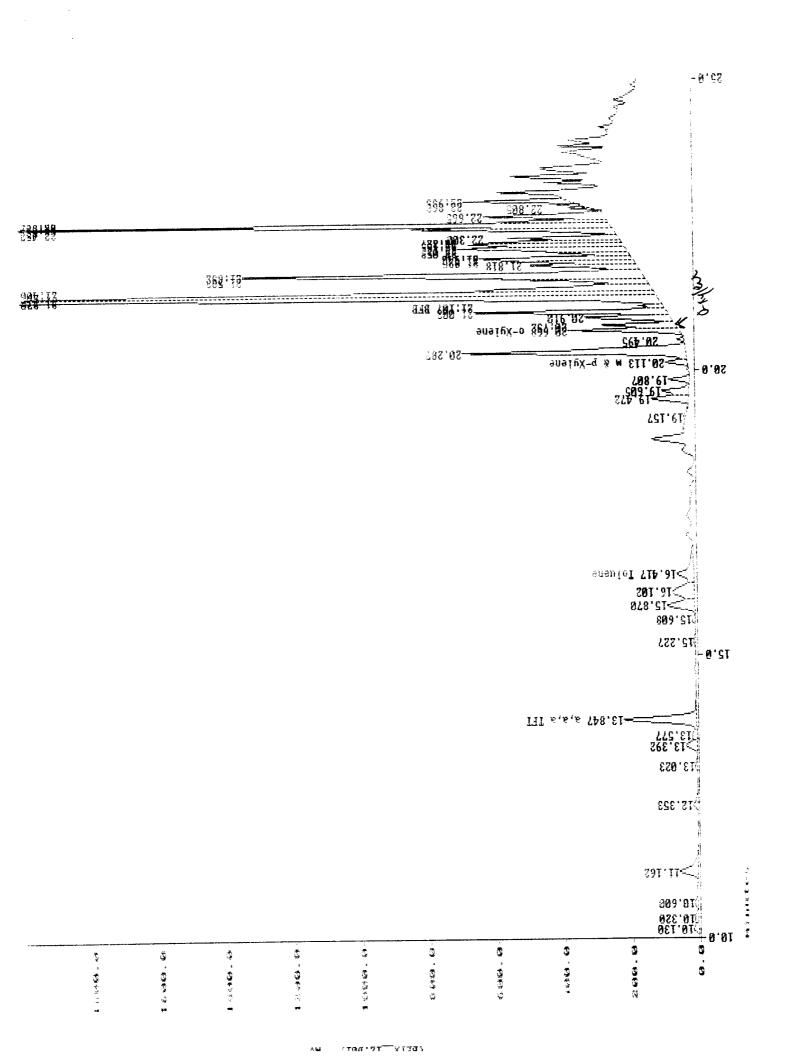
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INTERNAL STANDARD (AREA)

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(BETX_11.062) MV

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ATI I.D. 405313

May 13, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/03/94, 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.

EPA Method 8015 analysis was added on 05/05/94 for sample 945008 per Stacy Sendler.

The matrix spike/spike duplicate data from the samples extracted on 05/05/94 is reported twice reflecting quantification using both the internal standard and external standard protocols. Both protocols were employed to quantify the samples submitted for this project.

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

Letítia Krakowski, Ph.D.

Project Manager

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jd

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX, MTBE (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405313

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPL		DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945008	NON-AQ	04/26/	94	05/09/94	05/10/94	1
02	945009	NON-AQ	04/26/	94	05/09/94	05/10/94	20
03	945010	NON-AQ	04/26/	94	05/09/94	05/10/94	20
PARAME	TER		UNITS	EPN	6 0	1 02	03
BENZEN	E		MG/KG	۷٥,	z <0.02	5 <0.50	4.1
TOLUEN	E		MG/KG	ی، ۱	×9 <0.02	5 3.6	88
ETHYLB	ENZENE		MG/KG	0.7	73 0.14	3.7	32
TOTAL	XYLENES		MG/KG	8.0	3.9	58	380
METHYL	-t-BUTYL ETHER		MG/KG	NI	/) <0.12	<2.4	2.5
SURROG	ATE:						
BROMOFLUOROBENZENE (%)					170*	84	187*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 405313

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945008	NON-AQ	04/26/94	05/09/94	05/09/94	20
PARAME	TER		UNITS	01	EPNG 48.1	
FUEL H	YDROCARBONS		MG/KG	3700	9560	mg/ka
HYDROC	ARBON RANGE			C8-C34		4,7
HYDROC	ARBONS QUANTITATED	USING		DIESEL		

SURROGATE:

O-TERPHENYL (%)

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PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Euvironmental Services Corp.
4000 Morroe Road
Fermington, New Mexico 87401
(606) 326-2262 FAX (606) 326-2388

Project Name
Project Number
Project Location

Well Logged By
Personnel On-Site
Client Personnel On-Site

Well #

Elevation

Borehole Location 130, K12, 5.15, E

GWL Depth

Logged By S.Kelly

Drilled By M. Donolug

Date/Time Started 10/5/95, 11/5

Date/Time Completed 10/5/95, 1230

Orilling Method 444 ID HSH
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		r Monito Inits: NC BH		Drilling Conditions & Blow Counts
5		13-		Backfill, to 31.	4	rect	52			J13.0
15		, <i>15</i>	20	SAND, tan, trace silt, fine sand, v. dense, poorly graded, dry. 10B-15.0					ام	1130
30										

Comments:

bagged and iced prior to being put in var. BH growted.

Geologist Signature

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FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

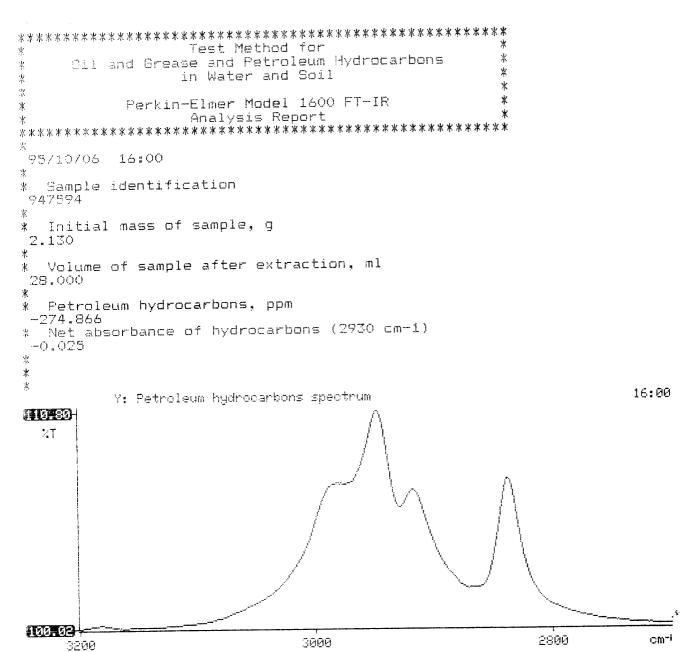
	Field ID	Lab ID
SAMPLE NUMBER:	SEK92	947594
MTR CODE SITE NAME:	94322	Johnson Gas Com D* 1E
SAMPLE DATE TIME (Hrs):	10-05-95	1130
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	10/6/95	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	WENT BESUN JAMO

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Field Remarks:

PARAMETER	R	ESULT	UNITS		QUALIFIERS		
FARMILIEIT				DF	Q	M(g)	V(ml)
BENZENE	4	0.5	MG/KG				
TOLUENE	<	0.5	MG/KG				
ETHYL BENZENE	<	0.5	MG/KG				
TOTAL XYLENES	1	1.5	MG/KG				
TOTAL BTEX	4	3	MG/KG				
TPH (418.1)	~	10	MG/KG			2.13	28
HEADSPACE PID		7	PPM				
PERCENT SOLIDS		92,4	%				

PERCENT SULIDS	1 331.			
The Surrogate Recovery was at Narrative:	TPH is by EPA Method 4	18.1 and BTEX is by EPA for this sample		
DF = Dilution Factor Used			Date:	10-11-95



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BTEX SOIL SAMPLE WORKSHEET

File	:	947594	Date Printed : 10/7/95
Soil Mass	s (g):	5.06	Multiplier (L/g) : 0.00099
Extraction vol		10	DF (Analytical) : 200
Shot Volume	•	50	DF (Report) : 0.19763
			Det. Limit
Benzene	(ug/L) :	0.17	Benzene (mg/Kg): 0.034 0.494
Toluene	(ug/L) :	0.20	Toluene (mg/Kg): 0.040 0.494
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg): 0.000 0.494
p & m-xylene	(ug/L) :	0.34	p & m-xylene (mg/Kg): 0.067 0.988
o-xylene	(ug/L) :	0.17	o-xylene (mg/Kg): 0.034 0.494
•	. • ,		Total xylenes (mg/Kg): 0.101 1.482
			Total BTEX (mg/Kg): 0.174

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EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

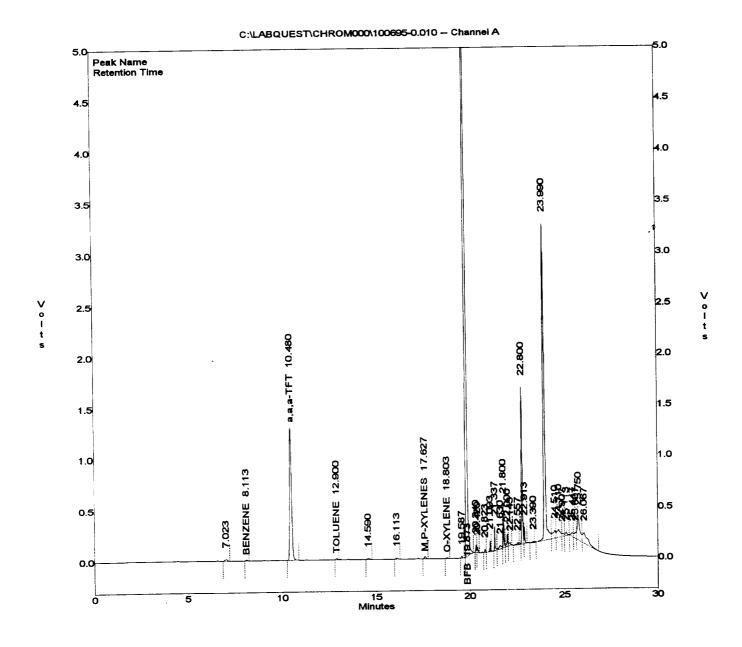
File : C:\LABQUEST\CHROM000\100695-0.010 Method : C:\LABQUEST\METHODS\0-092095.MET

Sample ID : 947594,5.06G,50U Acquired : Oct 06, 1995 21:27:33 Printed : Oct 06, 1995 21:57:57

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)	
BENZENE	8.113	62385	0.1667	
a,a,a-TFT	10.480	9064037	103.6058	
TOLUENE	12.900	73998	0.2033	
ETHYLBENZENE	17.170	0	0.0000	
M, P-XYLENES	17.627	136046	0.3391	
O-XYLENE	18.803	54035	0.1650	
BFB	19.873	52812620	96.8895	



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