

El Paso
EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

Approved
RINCON UNIT #120
Meter/Line ID - 72238

SITE DETAILS

Legals - Twn: 27 Rng: 06
NMOCD Hazard Ranking: 10
Operator: UNOCAL CORPORATION

Sec: 22 Unit: E
Land Type: 2 - Federal

Pit Closure Date: 12/14/94

RECEIVED
JUL 2 1998

CON. DIV.

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

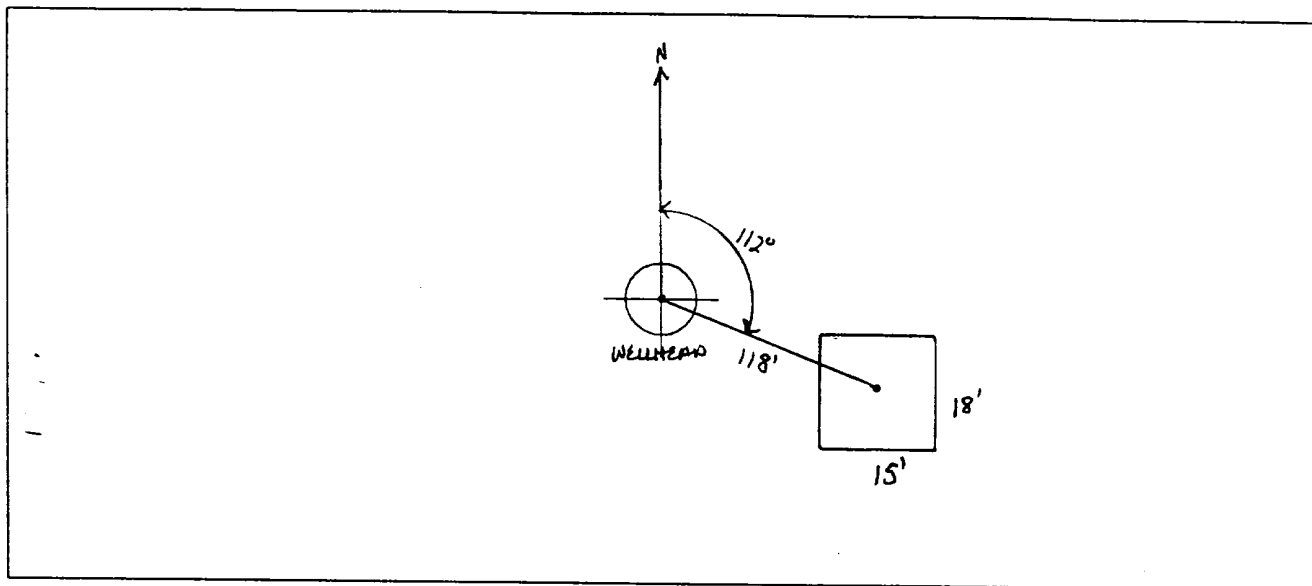
GENERAL	<p>Meter: <u>72238</u> Location: <u>RINCON UNIT #120</u></p> <p>Operator #: _____ Operator Name: <u>UNOCAL</u> P/L District: <u>BLANCO</u></p> <p>Coordinates: Letter: <u>E</u> Section <u>22</u> Township: <u>27</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>11-29-94</u> Area: <u>03</u> Run: <u>21</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: _____ Land Type: BLM <input checked="" type="checkbox"/> (1) (From NMOCD State <input type="checkbox"/> (2) Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (3)</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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>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)</p> <p>Name of Surface Water Body <u>MARTINEZ CANYON</u></p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>10</u> POINTS</p>
REMARKS	<p>Remarks : <u>REDLINE : TOPO SHOW LOCATION INSIDE V.2. ONE PIT ON LOCATION BELONGS TO UNOCAL. EPNG DRIP HAS BEEN CLOSED. WILL RE-DIG CLOSED PIT.</u></p> <p><u>NOTE. ORANGE STAKES.</u></p>

NIG & HAUL

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 112° Footage from Wellhead 118'
 b) Length : 18' Width : 15' Depth : 0

ORIGINAL PIT LOCATION



REMARKS

Remarks :

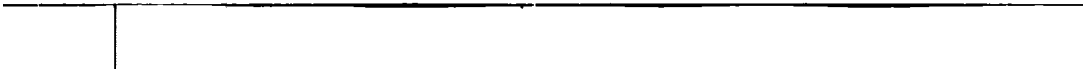
PHOTOS - 1014

Completed By:

Robert J. Thompson
 Signature

11.29.94
 Date

PHASE I EXCAVATION



FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>72238</u> Location: <u>Rincon unit #120</u></p> <p>Coordinates: Letter: <u>E</u> Section <u>22</u> Township: <u>27</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12/14/94</u> Run: <u>03</u> <u>21</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 386</u></p> <p>Sample Depth: <u>3'</u> Feet</p> <p>Final PID Reading <u>529 ppm</u> PID Reading Depth <u>3'</u> Feet</p> <p>Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>20</u></p> <p>Onsite Bioremediation <input type="checkbox"/></p> <p>Backfill Pit Without Excavation <input type="checkbox"/></p> <p>Soil Disposition:</p> <p>Envirotech <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra</p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12/14/94</u> Pit Closed By: <u>BEI</u></p>
REMARKS	<p>Remarks : <u>UNOCAL had previously Covered pit, No Overburden WAS Removed. Excavated pit to 3', Hit Sandstone. TOOK PID Sample, Closed pit.</u></p>
	<p>Signature of Specialist: <u>Hummy Dan</u></p>



SPLIT

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	150 386	9416531
MTR CODE SITE NAME:	72238	N/A
SAMPLE DATE TIME (Hrs):	12-14-94	1140
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-15-94	12-15-94
DATE OF BTEX EXT. ANAL.:	12/15/94	12/19/94
TYPE DESCRIPTION:	VC	Brown sand

REMARKS: BTEX results from ATI and EPNG

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	<1.1	MG/KG	0.2694		4.95	20	2.5
TOLUENE	22.8	MG/KG	I		I	I	21
ETHYL BENZENE	14.4	MG/KG	I		I	I	15
TOTAL XYLENES	144.1	MG/KG	I		I	I	160
TOTAL BTEX	182.3	MG/KG					199
TPH (418.1)	3010	MG/KG			2.02	28	—
HEADSPACE PID	529	PPM					Surrogate %
PERCENT SOLIDS	96.3	%					*
							Dilution Factor
							100

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

The Surrogate Recovery was at 175% for this samp All QA/QC was acceptable.

Narrative:

BFB collected

ATI Results attached

* Surrogate Recovery not obtainable due to sample dilution

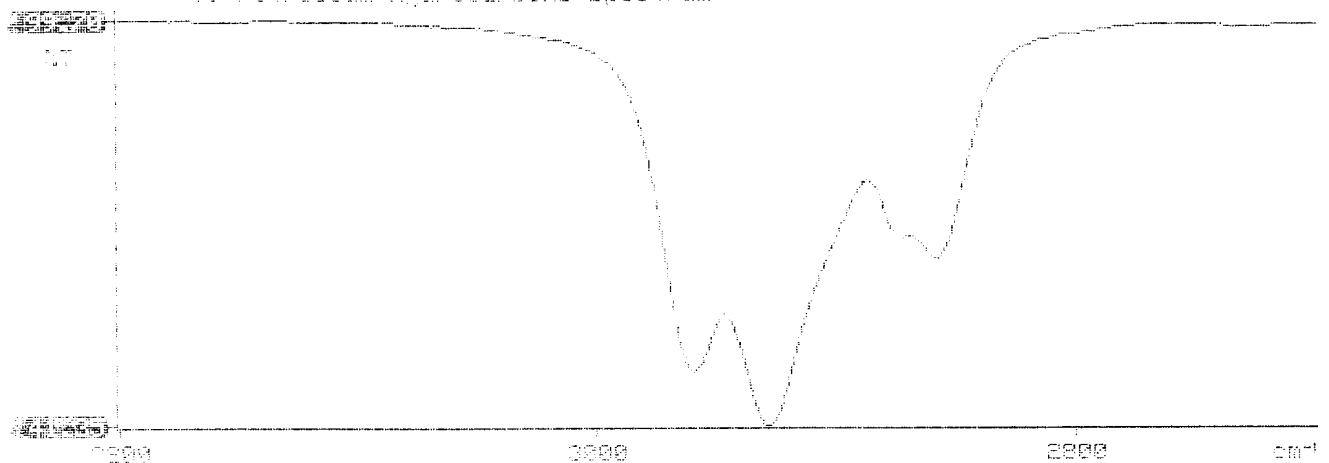
DF = Dilution Factor Used

Approved By:

Date:

1-6-95

Perkin-Elmer Model 1600 FT-IR
Analysis Report



BTEX SOIL SAMPLE WORKSHEET

File	:	946531B	Date Printed	:	12/21/94
Soil Mass (g)	:	4.95	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	266.667
Shot Volume (uL)	:	75	DF (Report)	:	0.26936

			Det. Limit
Benzene (ug/L)	:	3.81	Benzene (mg/Kg): 1.026 1.347
Toluene (ug/L)	:	84.63	Toluene (mg/Kg): 22.796 1.347
Ethylbenzene (ug/L)	:	53.36	Ethylbenzene (mg/Kg): 14.373 1.347
p & m-xylene (ug/L)	:	355.95	p & m-xylene (mg/Kg): 95.879 5.387
o-xylene (ug/L)	:	179.00	o-xylene (mg/Kg): 48.215 2.694
			Total xylenes (mg/Kg): 144.094 8.081
			Total BTEX (mg/Kg): 182.290

21.1

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

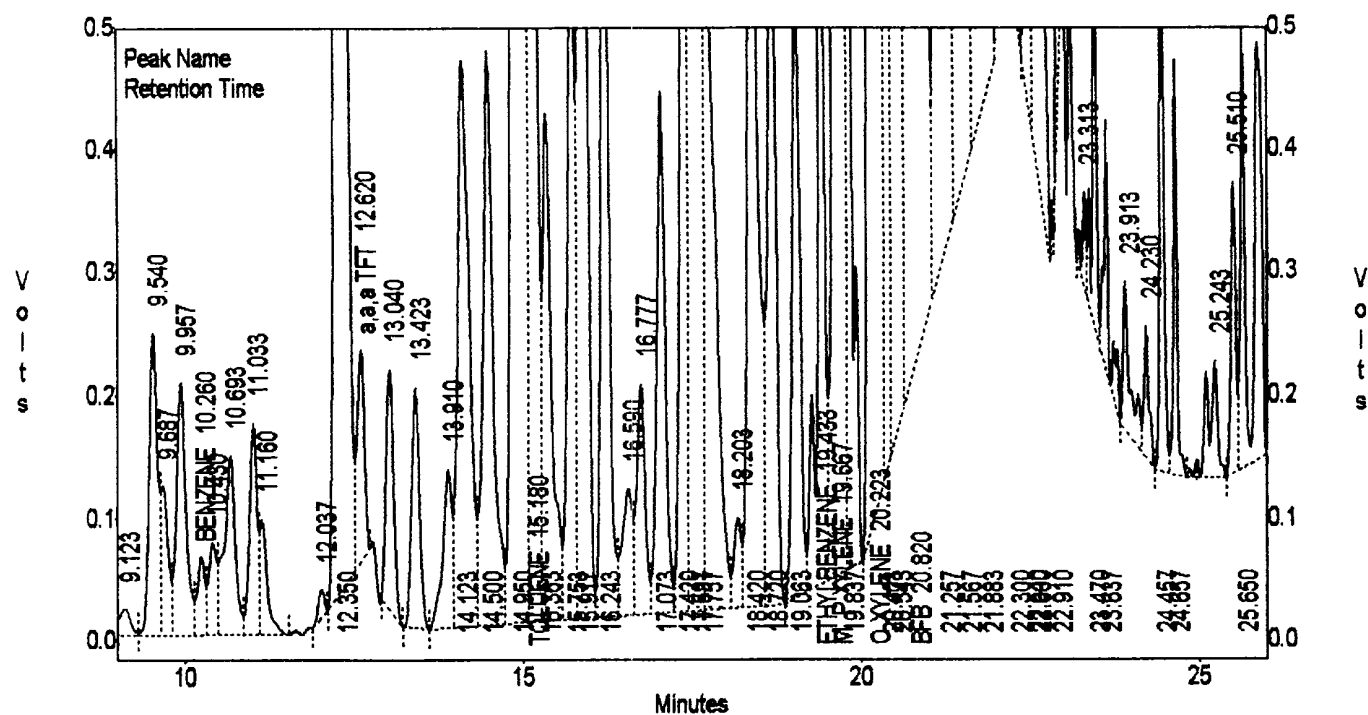
File : C:\LABQUEST\CHROM\946531B
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946531,4.95G/75uL
 Acquired : Dec 19, 1994 22:26:16
 Printed : Dec 19, 1994 22:52:30
 User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.260	512466	131872.92188	3.8062
a,a,a TFT	12.620	1292185	8403.01855	144.1130
TOLUENE	15.180	11342274	148815.51563	84.6257
ETHYLBENZENE	19.433	6406982	132895.85938	53.3621
M & P XYLENE	19.667	46202080	193528.29688	355.9535
O XYLENE	20.223	21327894	142564.65625	179.0038
BFB	20.820	35729172	199747.54688	175.2092

Totals :
 122813056 996.0734

C:\LABQUEST\CHROM\946531B - Channel A



EL PASO NATURAL GAS**EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM\946531B
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946531,4.95G/75uL
 Acquired : Dec 19, 1994 22:26:16
 Printed : Dec 19, 1994 22:52:37
 User : Tony

Channel B Results

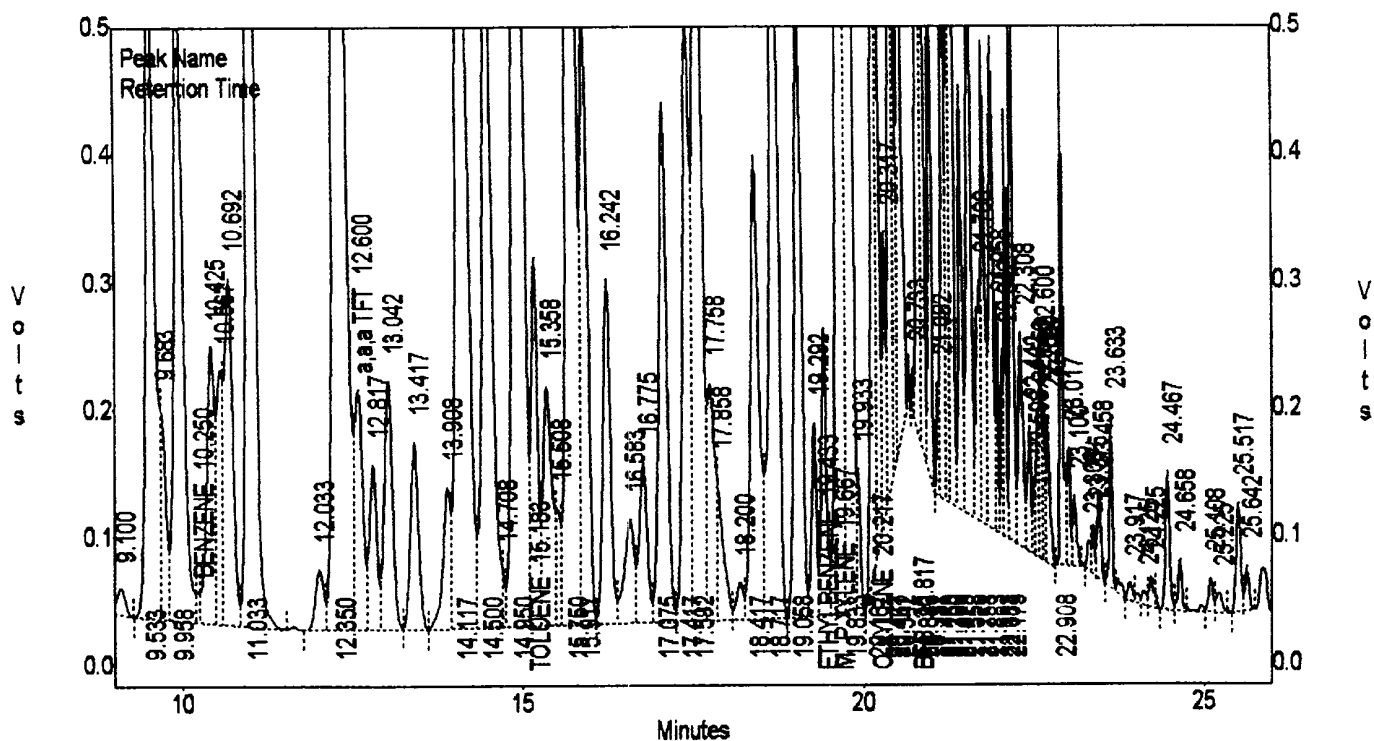
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.250	83708	21915.75586	3.6861
a,a,a TFT	12.600	1555016	2414.15015	609.3279
TOLUENE	15.183	1909563	24426.96680	84.6165
ETHYL BENZENE	19.433	1173274	22761.56836	54.6372
M & P XYLENE	19.667	8980987	24867.57227	427.0293
O XYLENE	20.217	2195288	23922.60938	103.2581
BFB	20.817	3663931	23067.31836	151.4065

Totals :

19561770

1433.9614

C:\LABQUEST\CHROM\946531B - Channel B





Analytical **Technologies, Inc.**

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

ATI I.D. 412379

December 29, 1994

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



Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 12/16/94, 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.

Letitia Krakowski, Ph.D.
Project Manager

MR:jt

Enclosure

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS ATI I.D.: 412379
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946530	NON-AQ	12/13/94	12/19/94	12/28/94	20
05	946531	NON-AQ	12/14/94	12/19/94	12/23/94	100
06	946532	NON-AQ	12/14/94	12/19/94	12/23/94	5
PARAMETER			UNITS	04	05	06
BENZENE			MG/KG	<0.50	<2.5	<0.13
TOLUENE			MG/KG	<0.50	21	<0.13
ETHYLBENZENE			MG/KG	<0.50	15	0.50
TOTAL XYLENES			MG/KG	3.0	160	4.0

SURROGATE:

BROMOFLUOROBENZENE (%) 101 * 86

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

PHASE II



RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole #

BH-1

Well #

Page

of

Project Name

EPNG Pits

Project Number

14509

Phase

60+ 6000

Project Location

Rincon Unit #120, 72238

Elevation

Borehole Location T27, R6, S.22 E

GWL Depth

Logged By S.Kelly

Drilled By

M. Donohue

Date/Time Started

8/22/95, 15:15

Date/Time Completed

8/22/95, 16:30

Well Logged By

S.Kelly

Personnel On-Site

M. Donohue, J. O'Keefe

Contractors On-Site

Client Personnel On-Site

Drilling Method

4 1/4" ID HSA

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)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill to 3'						
5										
10										
15	1	13-15		SAND, fine, tan, dense, dry						
20	2	18-20		SAA						
25	3	23-25		SILT, brown, very dense, dry						
30				TOB- 25.0'						
35										
40										

Comments:

23'-25' sample (SEK 68) sent to lab (BTEX & TPH) Sample was bagged & iced prior to being put in jar. BH grouted to surface.

Geologist Signature

Russ Kelly



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK68	947305
MTR CODE SITE NAME:	72238	Rincon Unit #120
SAMPLE DATE TIME (Hrs):	08-22-95	15:50
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/23/95	
DATE OF BTEX EXT. ANAL.:	8/24/95	
TYPE DESCRIPTION:	V6	Light brown sand & sand stones

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	60.2	MG/KG			2.01	2E
HEADSPACE PID	7	PPM				
PERCENT SOLIDS	94.3	%				

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

The Surrogate Recovery was at 98% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

Date:

8/28/95

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

* 95/08/23 14:33

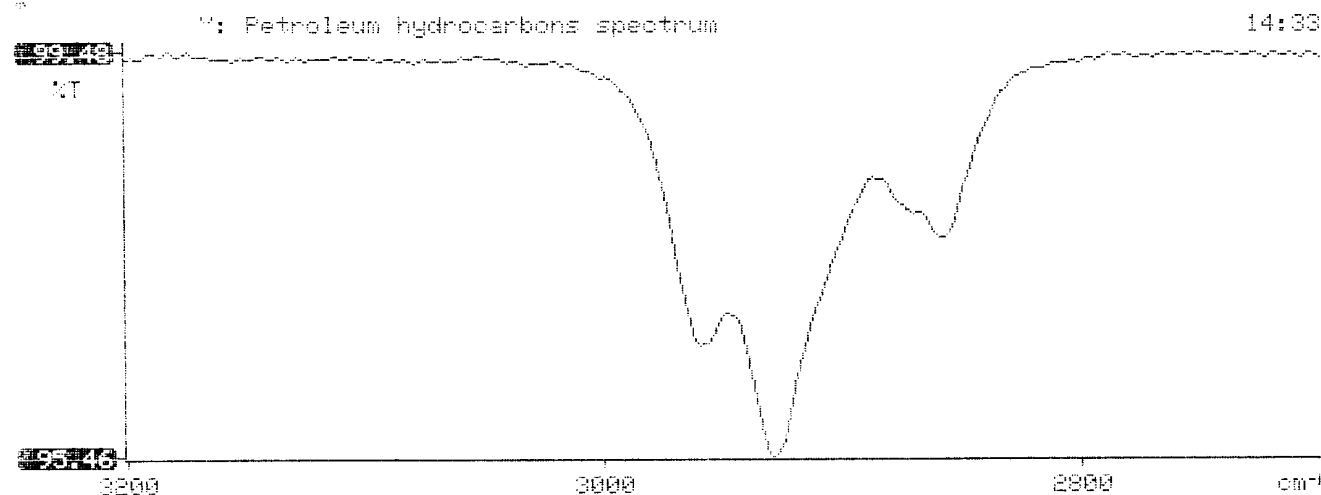
* Sample identification
 947305

* Initial mass of sample, g
 2.010

* Volume of sample after extraction, ml
 28.000

* Petroleum hydrocarbons, ppm
 60.177

* Net absorbance of hydrocarbons (2930 cm^{-1})
 0.018



BTEX SOIL SAMPLE WORKSHEET

File	:	947305	Date Printed	:	8/26/95
Soil Mass (g)	:	4.96	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20161

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.504
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.504
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.504
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.008
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.504
			Total xylenes (mg/Kg):	0.000 1.512
			Total BTEX (mg/Kg):	0.000

**EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\082495-1.024
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947305,4.96G,100U
Acquired : Aug 25, 1995 04:51:05
Printed : Aug 25, 1995 05:17:26
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.443	0	0.0000
a,a,a TFT	4.940	4629147	89.0055
TOLUENE	6.763	110353	-0.4420
ETHYLBENZENE	10.510	0	0.0000
M & P XYLENE	10.837	0	0.0000
C XYLENE	11.907	0	0.0000
BFB	13.393	70326888	97.6305

