

EPFS PIT CLOSURE SUMMARY

Denny L. Frost
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Rincon Unit # 49
Meter/Line ID - 71098

Approved

Legals - Twn: 27 Rng: 6
NMOCD Hazard Ranking: 10
Operator: UNOCAL

SITE DETAILS

Sec: 31 Unit: B
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 12/5/94
Monitor Well: N/A

Excavation: 1/9/95
Re-Excavation: N/A

Soil Boring: 9/19/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated soils to be 163 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 312 mg/kg, and TPH was above standards at 5,380 mg/kg. A test boring was advanced in the center of the initial excavation to determine the extent of the impact to soils. The soil lithology consisted of inter-bedded clay and sand. A soil sample was collected for BTEX and TPH analysis at 23-25 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 24.4 mg/kg present in the soil.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 11 feet below the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

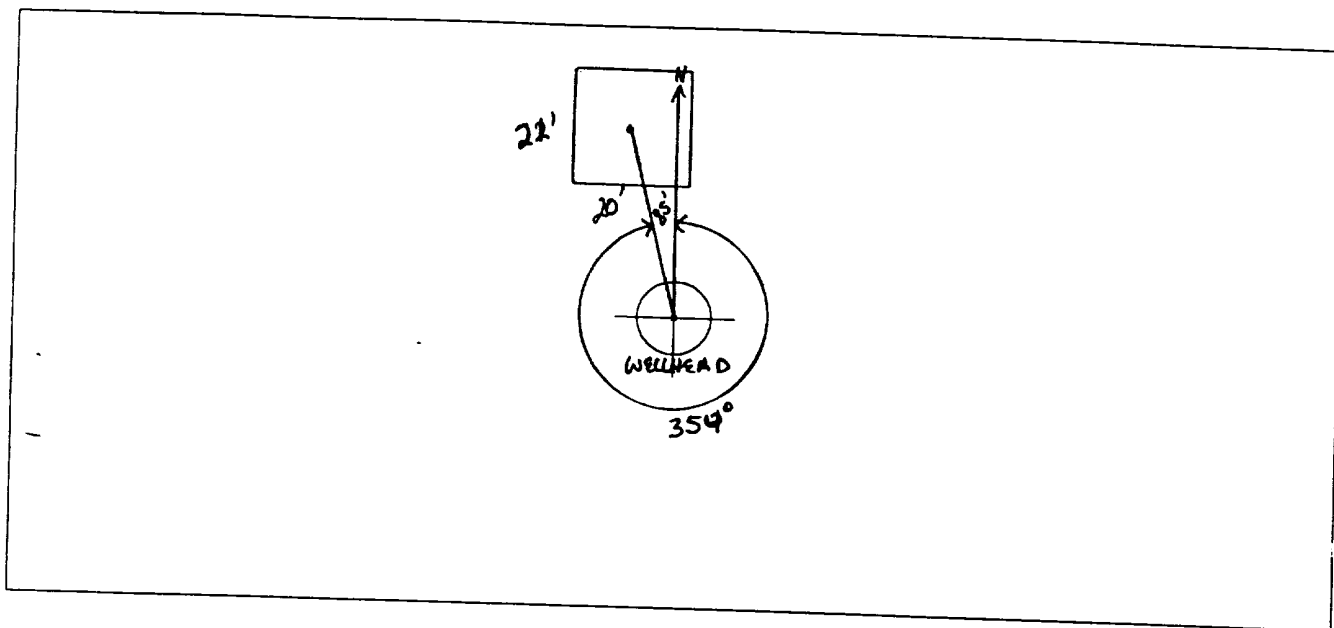
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>71098</u> Location: <u>PINCON UNIT #49</u> Operator #: _____ Operator Name: <u>UNOCAL</u> P/L District: <u>BLANCO</u> Coordinates: Letter: <u>B</u> Section <u>31</u> Township: <u>27</u> Range: <u>6</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____ Site Assessment Date: <u>12.5.94</u> Area: <u>03</u> Run: <u>62</u>
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 <u>EPHEMERAL DRAINAGE TO PAULICHE CANYON</u> (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: <u>10</u> POINTS
REMARKS	Remarks : <u>REDLINE & TOPO SHOW LOCATION INSIDE U.I.Z. ONE PIT ON LOCATION BELONGS TO UNOCAL. EPNG LOCATION DRIP HAS BEEN CLOSED. WILL RE-DIG CLOSED PIT. NOTE ORANGE STAKE.</u>

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 354° Footage from Wellhead 85'
b) Length : 21' Width : 20' Depth : 0'



Remarks :

PHOTOS - 1113

REMARKS

Completed By:

Robert Thompson

Signature

12.5.94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>71098</u> Location: <u>RINCON UNIT # 49</u> Coordinates: Letter: <u>B</u> Section <u>31</u> Township: <u>27</u> Range: <u>6</u> Or Latitude _____ Longitude _____ Date Started : <u>1-9-95</u> Run: <u>03</u> <u>62</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP 373</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>163</u> PID Reading Depth <u>12'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ Approx. Cubic Yards <u>40</u> Onsite Bioremediation ☐ Backfill Pit Without Excavation ☐ Soil Disposition: Envirotech ☒ ☐ Tierra Other Facility ☐ Name: _____ Pit Closure Date: <u>1-9-94</u> Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>Some LINE MARKERS. Started TAKEN The over Bearden</u> <u>off of Pit. Soil Turned gray At 6'7' with a light Hydrocarbon odor.</u> <u>AT 12' soil gray looking with odor. Closed Pit.</u>
	Signature of Specialist: <u>Kelly Padilla</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	WP 3-73	946557
MTR CODE SITE NAME:	71098	N/A
SAMPLE DATE TIME (Hrs):	1-9-95	1115
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	1-12-95	1-12-95
DATE OF BTEX EXT. ANAL.:	1/11/95	1/12/95 & 1/23/95
TYPE DESCRIPTION:	VC	Brown sand and clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.01	MG/KG	0.20284		4.93	20
TOLUENE	24.0	MG/KG				
ETHYL BENZENE	25.8	MG/KG				
TOTAL XYLENES	262	MG/KG				
TOTAL BTEX	312	MG/KG				
TPH (418.1)	5380	MG/KG			2.05	28
HEADSPACE PID	163	PPM				
PERCENT SOLIDS	87.1	%				

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

The Surrogate Recovery was at 45.9% for this sample All QA/QC was acceptable.

Narrative:

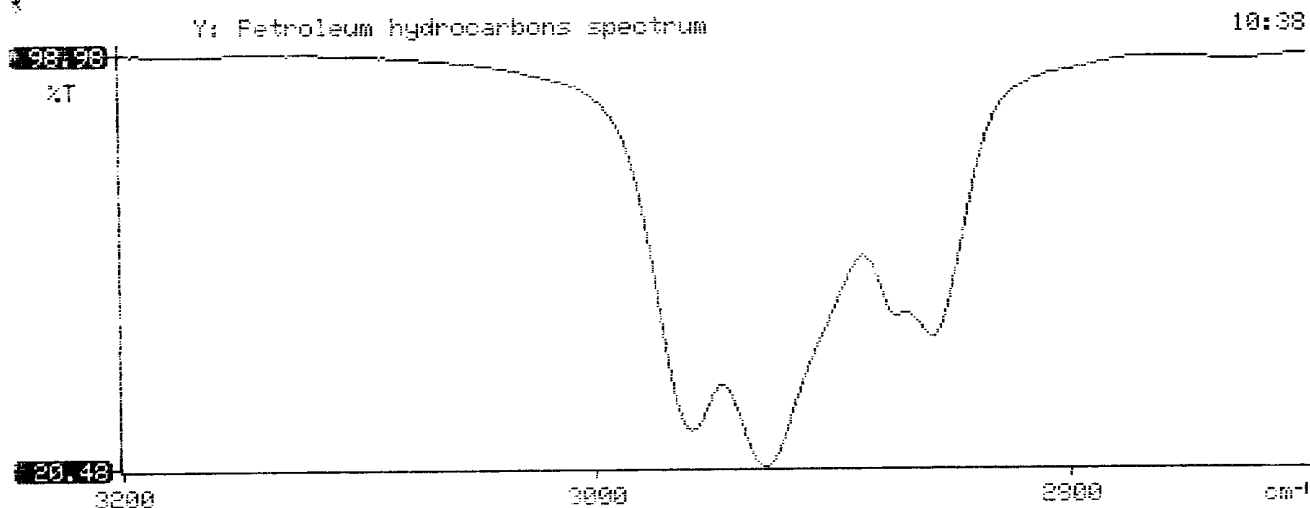
Low BFB recovery due to air in internal surrogate delivery line

DF = Dilution Factor Used

Approved By:

Date: 2-22-95

Perkin-Elmer Model 1600 FT-IR
Analysis Report



BTEX SOIL SAMPLE WORKSHEET

File : 946557A
Soil Mass (g) : 4.93
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 1/16/95
Multiplier (L/g) : 0.00101
DF (Analytical) : 200
DF (Report) : 0.20284

			Det. Limit
Benzene (ug/L) :	1.93	Benzene (mg/Kg):	0.391 1.014
Toluene (ug/L) :	118.30	Toluene (mg/Kg):	23.996 1.014
Ethylbenzene (ug/L) :	127.21	Ethylbenzene (mg/Kg):	25.803 1.014
p & m-xylene (ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000 2.028
o-xylene (ug/L) :	499.48	o-xylene (mg/Kg):	101.314 1.014
		Total xylenes (mg/Kg):	101.314 3.043
		Total BTEX (mg/Kg):	151.505

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946557A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946557.4.93/100uL
 Acquired : Jan 12, 1995 21:59:07
 Printed : Jan 12, 1995 22:25:23
 User : Tony

Channel A Results

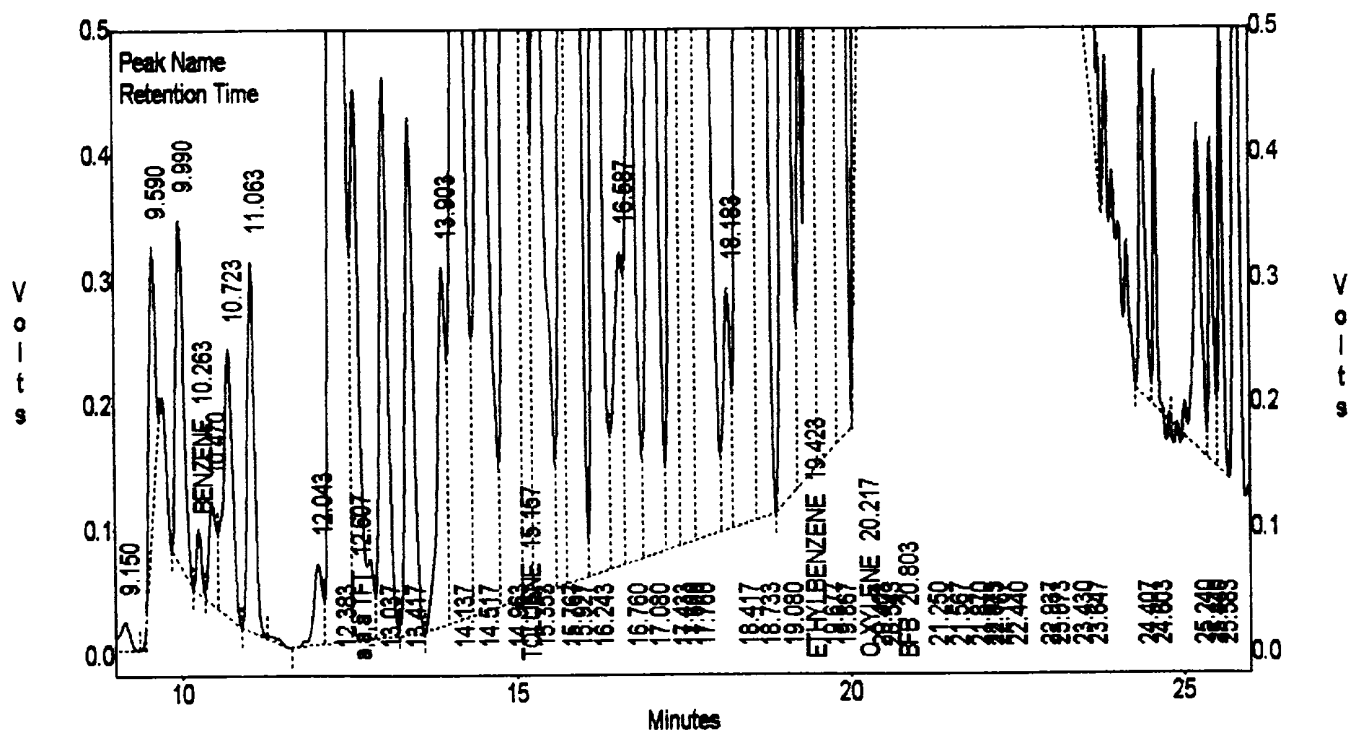
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.263	256263	139592.09375	1.9265
a,a,a TFT	12.607	4028979	6372.49561	546.5100
TOLUENE	15.157	15788044	169100.54688	118.2963
ETHYLBENZENE	19.423	15004945	129068.31250	127.2057
M & P XYLENE	19.623	0	0.00000	0.0000
O XYLENE	20.217	55024200	127976.28906	499.4767
BFB	20.803	10784167	232900.28125	45.8652

Totals :

100886600

1339.2805

C:\LABQUEST\CHROM\946557A - Channel A



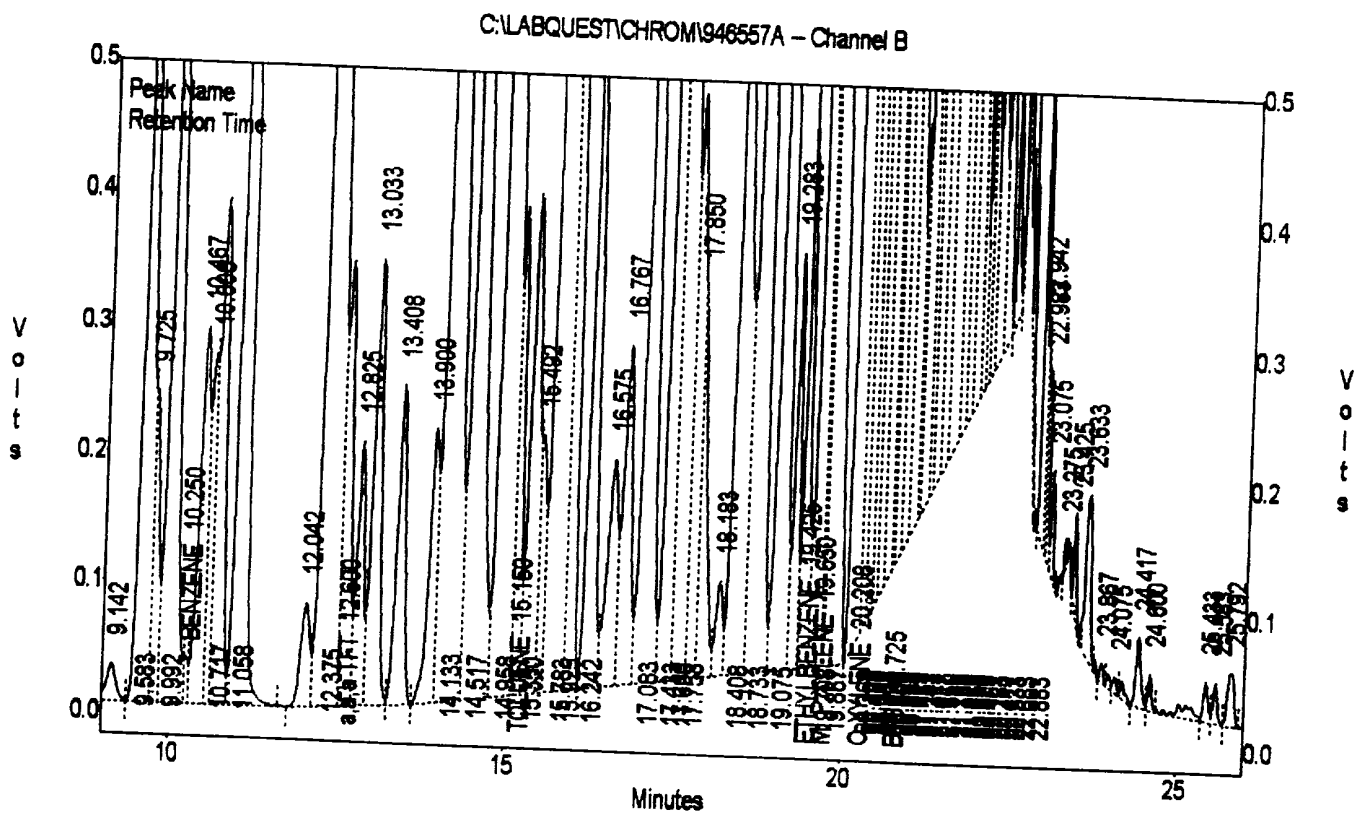
EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946557A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946557,4.93/100uL
 Acquired : Jan 12, 1995 21:59:07
 Printed : Jan 12, 1995 22:25:29
 User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.250	152082	20735.91406	7.5023
a,a,a TFT	12.600	2607211	1914.54138	1292.5784
TOLUENE	15.150	2125160	21257.20508	105.8731
ETHYLBENZENE	19.425	2325349	19772.41406	121.4157
M & P XYLENE	19.650	14693559	20137.20898	741.4705
O XYLENE	20.208	12966156	19526.79688	685.9732
BFB	20.725	1263551	25983.21484	48.0280
Totals :		36133072		3002.8413



BTEX SOIL SAMPLE WORKSHEET

File : 946557C
Soil Mass (g) : 4.93
Extraction vol. (mL) : 20
Shot Volume (uL) : 35

Date Printed : 1/25/95
Multiplier (L/g) : 0.00101
DF (Analytical) : 571.429
DF (Report) : 0.57954

Benzene (ug/L) : 0.00
Toluene (ug/L) : 228.58
Ethylbenzene (ug/L) : 37.72
p & m-xylene (ug/L) : 278.61
o-xylene (ug/L) : 42.57

		Det. Limit
Benzene (mg/Kg):	0.000	2.898
Toluene (mg/Kg):	132.472	2.898
Ethylbenzene (mg/Kg):	21.860	2.898
p & m-xylene (mg/Kg):	161.466	5.795
o-xylene (mg/Kg):	24.671	2.898
Total xylenes (mg/Kg):	186.137	8.693
Total BTEX (mg/Kg):	340.469	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM1946557C
 Method : C:\LABQUEST\METHODS\8001.MET
 Sample ID : 946557,4.93/35uL
 Acquired : Jan 23, 1995 16:07:54
 Printed : Jan 23, 1995 20:54:37
 User : Tony

Channel A Results

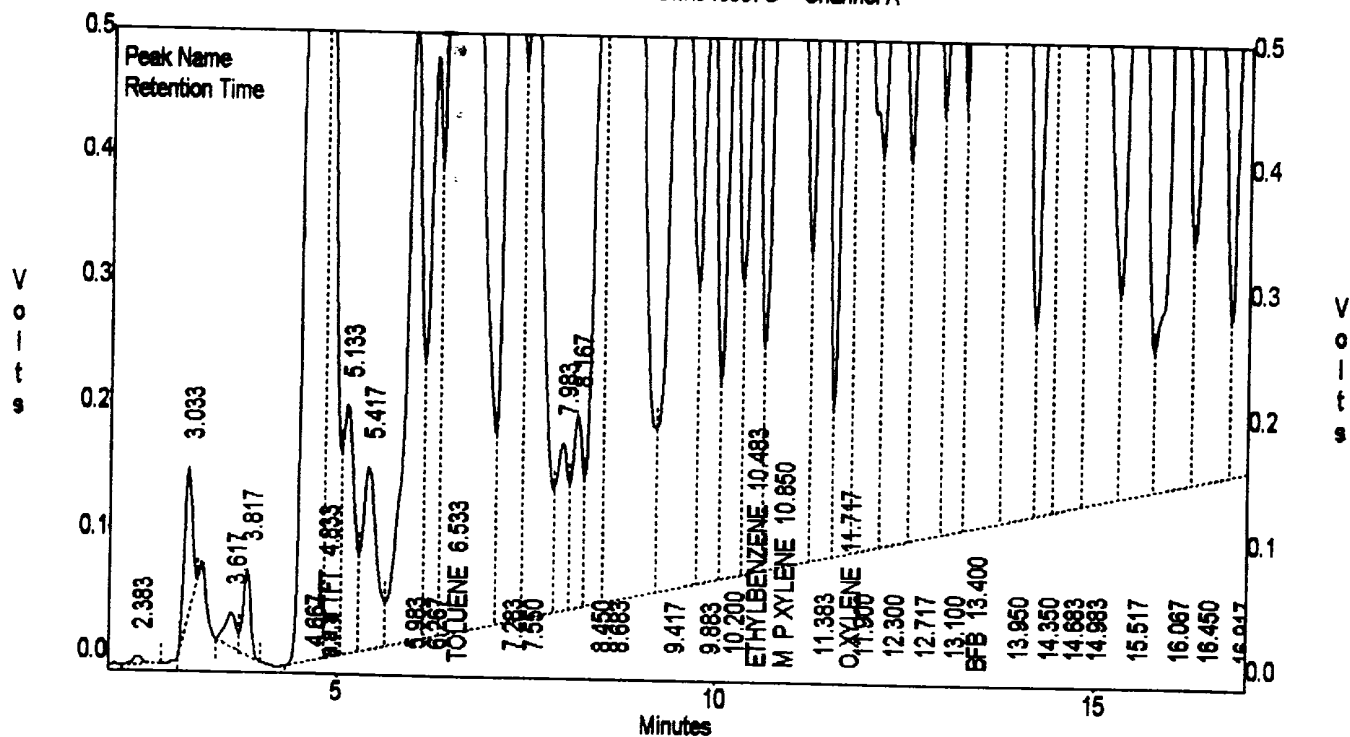
COMPONENT	RET TIME	AVG RF	CONC (ug/L)
BENZENE	3.350	0.00000	0.0000
a,a,a TFT	4.833	16441.05469	294.8027
TOLUENE	6.533	263791.65625	228.5788
ETHYLBENZENE	10.483	189312.21875	37.7217
M & P XYLENE	10.850	265882.84375	278.6147
O XYLENE	11.717	184211.78125	42.5722
BFB	13.400	596815.06250	112.6302

Totals :

203144384

994.9204

C:\LABQUEST\CHROM1946557C - Channel A

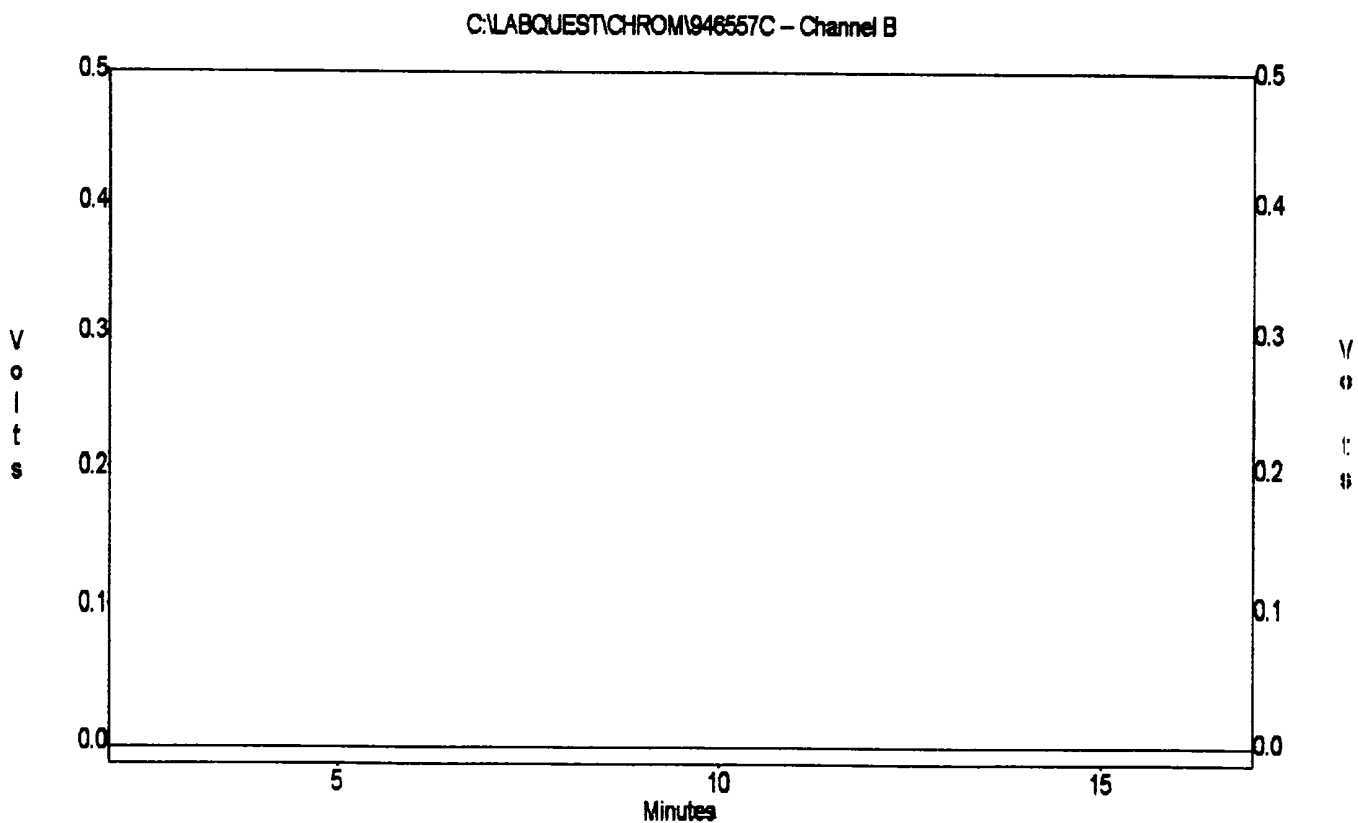


**EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS**

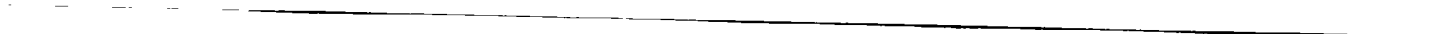
File : C:\LABQUEST\CHROM\946557C
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946557,4.93/35uL
Acquired : Jan 23, 1995 16:07:54
Printed : Jan 23, 1995 20:54:45
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.400	0	0.00000	0.0000
a,a,a TFT	4.829	0	0.00000	0.0000
TOLUENE	6.700	0	0.00000	0.0000
ETHYLBENZENE	10.460	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.883	0	0.00000	0.0000
BFB	13.367	0	0.00000	0.0000
Totals :		0		0.0000



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 # 1
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase DOT 6000
Project Location Rincon Unit #49, 71098

Elevation _____
Borehole Location T27, R6, S.31, B
GWL Depth _____
Logged By S. Kelly
Drilled By M. Donohue
Date/Time Started 9/19/95, 1345
Date/Time Completed 9/19/95, 1510

Well Logged By S. Kelly
Personnel On-Site M. Donohue, C. Millican
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 BZ BH S/H5			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15										
18	1	18-20	2'	silty CLAY, grey, 5-20% silt, stiff, damp		19				
20				SAND, grey, fine sand, med. dense, damp					89 566	1407
23	2	23-25	2'	CLAY, brown, stiff, non-plastic, damp		22				
25				SAND, light brown, fine sand, dense, dry		24.5			0 13	1412
30				TOB-25'						
35										
40										

Comments: 23'-25' sample (SEK89) sent to lab. (BTEX & TPH). Sample was bagged and iced prior to being put in jar. BH grouted to surface.

Geologist Signature

Sarah Kelly



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK89	947496
MTR CODE SITE NAME:	71098	Lincoln Unit #49
SAMPLE DATE TIME (Hrs):	09-19-95	1412
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL:	9-20-95	
DATE OF BTEX EXT. ANAL:	9/20/95	9/22/95
TYPE DESCRIPTION:	V6	Dark brown Sand and clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	24.4	MG/KG			2.0	28
HEADSPACE PID	13	PPM				
PERCENT SOLIDS	86.2	%				

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

The Surrogate Recovery was at 96% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: JS

Date: 9-26-95

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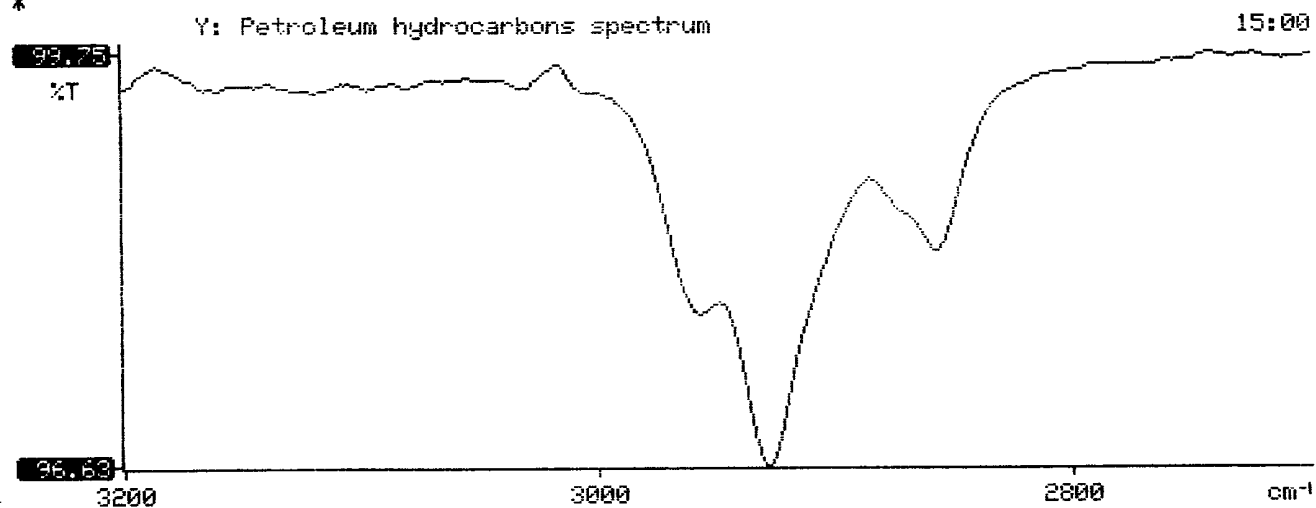
*****
*                               *
*      Test Method for          *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil        *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                    *
*      Analysis Report      *
*****

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* 95/09/20 15:00
*
* Sample identification
* 947496
*
* Initial mass of sample, g
* 2.000
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 24.439
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.013
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947496	Date Printed	:	9/25/95
Soil Mass (g)	:	4.95	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	10	DF (Analytical)	:	200
Shot Volume (uL)	:	50	DF (Report)	:	0.20202

				Det. Limit
Benzene (ug/L)	:	0.11	Benzene (mg/Kg):	0.022 0.505
Toluene (ug/L)	:	0.16	Toluene (mg/Kg):	0.032 0.505
Ethylbenzene (ug/L)	:	0.17	Ethylbenzene (mg/Kg):	0.034 0.505
p & m-xylene (ug/L)	:	0.66	p & m-xylene (mg/Kg):	0.133 1.010
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.505
			Total xylenes (mg/Kg):	0.133 1.515
			Total BTEX (mg/Kg):	0.222