

Fenny S. Frost
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Approved

PHASE I REMEDIATION SUMMARY

Rincon Unit # 27
Meter/Line ID - 70881

SITE DETAILS

Legals - Twn: 27 Rng: 7 Sec: 13 Unit: M
NMOCD Hazard Ranking: 10 Land Type: BLM
Operator: UNOCAL

PREVIOUS ACTIVITIES

Site Assessment: 12/6/94 Excavation: 1/10/95 Soil Boring: 8/28/95
Monitor Well: N/A Re-Excavation: N/A Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the top of bedrock, which was 4 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 343 ppm at 4 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 76.1 mg/kg, and TPH was above standards at 9,430 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. The soil lithology consisted of a clayey silt and continued to the termination of the boring at 20 feet bgs. A soil sample was collected for BTEX and TPH analysis at 18-20 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH present at 98 mg/kg.

RECOMMENDATIONS

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

- The bulk of the impacted soil was removed during the phase I excavation.
- Test boring sample results indicated soils below standards 16 feet beneath 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.

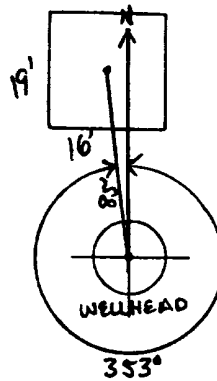
RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

RECEIVED
MAR - 9 1938
OIL CON. DIV.
DIST. 3

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 353° Footage from Wellhead 83'
b) Length : 19' Width : 16' Depth : 0

ORIGINAL PIT LOCATION



Remarks :

PHOTOS - 0953

REMARKS

Completed By:

Robert Champion
Signature

12.6.94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>70881</u> Location: <u>PINCON unit #27</u> Coordinates: Letter: <u>M</u> Section <u>13</u> Township: <u>27</u> Range: <u>7</u> Or Latitude _____ Longitude _____ Date Started : <u>1-10-95</u> Run: <u>03 22</u>
FIELD OBSERVATIONS	Sample Number(s): <u>MK 320</u> Sample Depth: <u>4'</u> Feet Final PID Reading <u>343</u> PID Reading Depth <u>4'</u> Feet Yes No Groundwater Encountered ☐ ☒ Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ Approx. Cubic Yards <u>20</u> Onsite Bioremediation ☐ Backfill Pit Without Excavation ☐ Soil Disposition: Envirotech ☒ Tierra ☐ Other Facility ☐ Name: _____ Pit Closure Date: <u>1-10-95</u> Pit Closed By: <u>BEJ</u>
REMARKS	Remarks : <u>Pit already closed 1 to 3' light brown soil last</u> <u>Foot Gray strong H₂O carbonyl odor Hit Rock 4'</u>
	Signature of Specialist: <u>Morgan Killian</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 30	946560
MTR CODE SITE NAME:	70881	N/A
SAMPLE DATE TIME (Hrs):	1-10-95	1650
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL:	1-12-95	1-12-95
DATE OF BTEX EXT. ANAL:	1/11/95	11/23/95
TYPE DESCRIPTION:	VC	Dark Grey sand / clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.27	MG/KG	0.20833		4.80	20
TOLUENE	51.8	MG/KG				
ETHYL BENZENE	3.11	MG/KG				
TOTAL XYLENES	18.9	MG/KG				
TOTAL BTEX	76.1	MG/KG				
TPH (418.1)	9430	MG/KG			0.45	28
HEADSPACE PID	343	PPM				
PERCENT SOLIDS	89.9	%				

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

The Surrogate Recovery was at 98.0 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By:

Date:

2-22-95

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

ILLEGIBLE

95/01/12 11:42

Sample identification
946540

Initial mass of sample, g
0.450

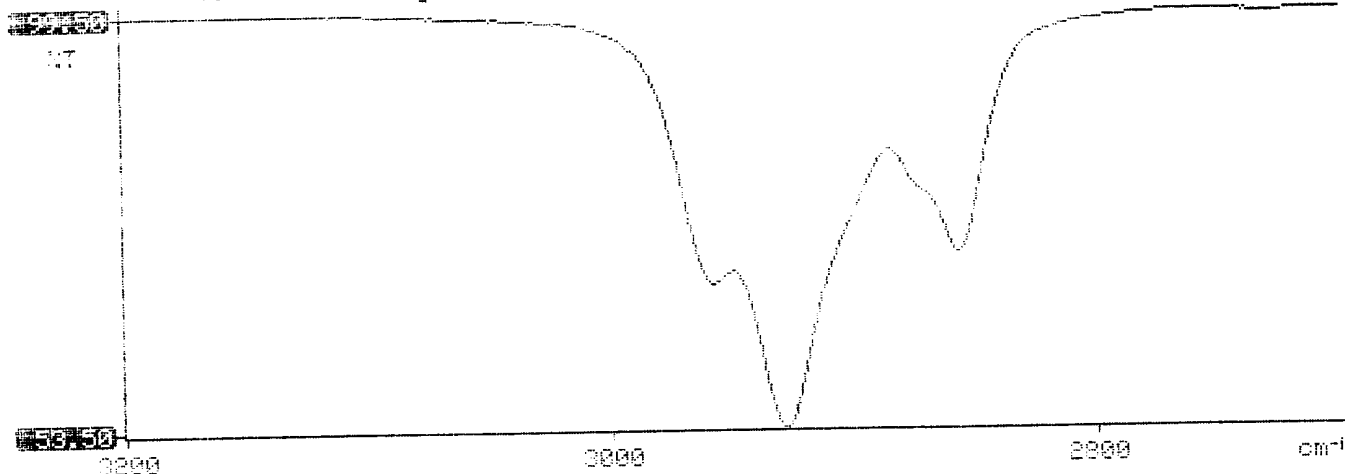
Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
9434.200

Net absorbance of hydrocarbons (2930 cm⁻¹)
0.269

Y: Petroleum hydrocarbons spectrum

11:42



BTEX SOIL SAMPLE WORKSHEET

File	:	946560B	Date Printed	:	1/25/95
Soil Mass (g)	:	4.8	Multiplier (L/g)	:	0.00104
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20833

				Det. Limit	
Benzene (ug/L)	:	10.91	Benzene (mg/Kg):	2.273	1.042
Toluene (ug/L)	:	248.58	Toluene (mg/Kg):	51.788	1.042
Ethylbenzene (ug/L)	:	14.91	Ethylbenzene (mg/Kg):	3.106	1.042
p & m-xylene (ug/L)	:	73.12	p & m-xylene (mg/Kg):	15.233	2.083
o-xylene (ug/L)	:	17.78	o-xylene (mg/Kg):	3.704	1.042
			Total xylenes (mg/Kg):	18.938	3.125
			Total BTEX (mg/Kg):	76.104	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946560B
 Method : C:\LABQUEST\METHODS\8001.MET
 Sample ID : 946560,4.80/100uL
 Acquired : Jan 23, 1995 22:47:54
 Printed : Jan 24, 1995 09:32:50
 User : Tony

Channel A Results

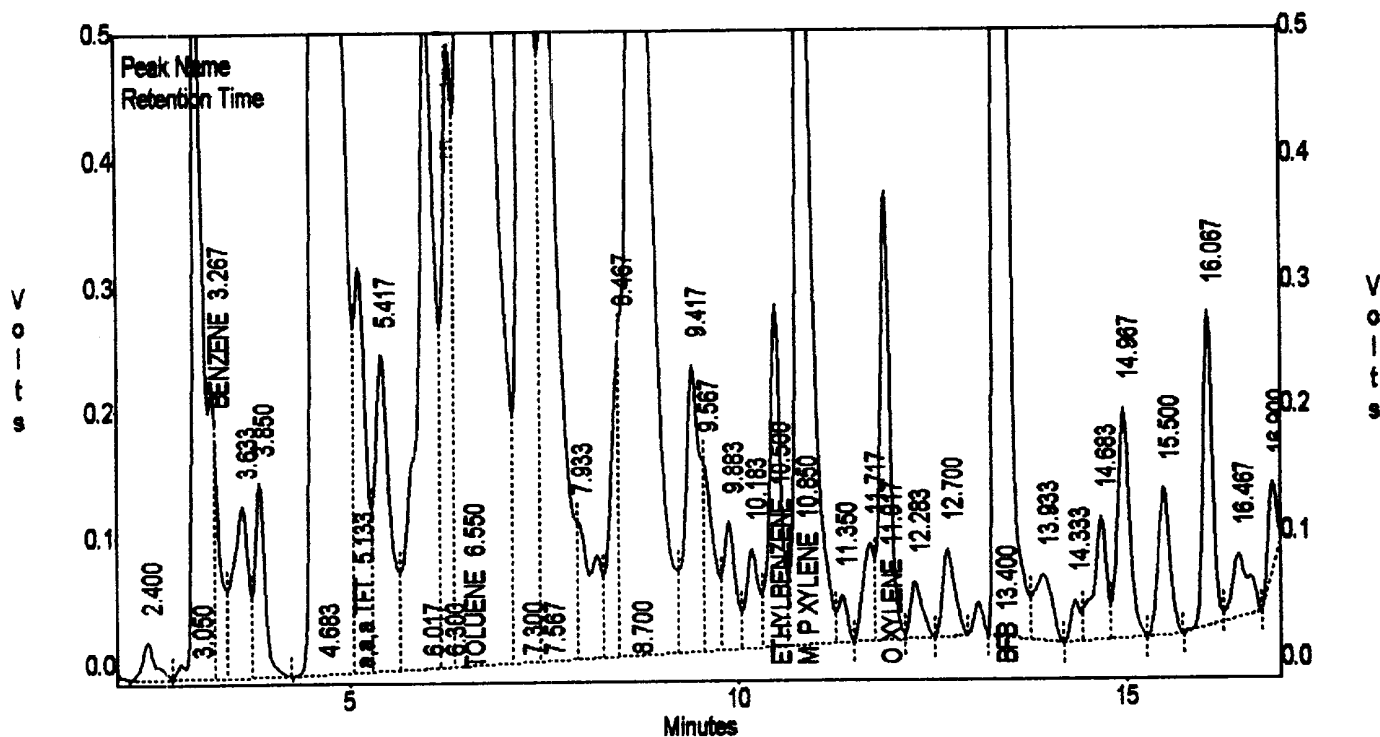
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.267	1055796	92535.30469	10.9114
a,a,a TFT	5.133	3399988	16441.05469	170.2148
TOLUENE	6.550	51702076	263791.65625	248.5774
ETHYLBENZENE	10.500	2717217	189312.21875	14.9087
M & P XYLENE	10.850	15273180	265882.84375	73.1162
O XYLENE	11.917	3161789	184211.78125	17.7773
BFB	13.400	67074104	596815.06250	98.0261

Totals :

144384160

633.5320

C:\LABQUEST\CHROM\946560B - Channel A



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

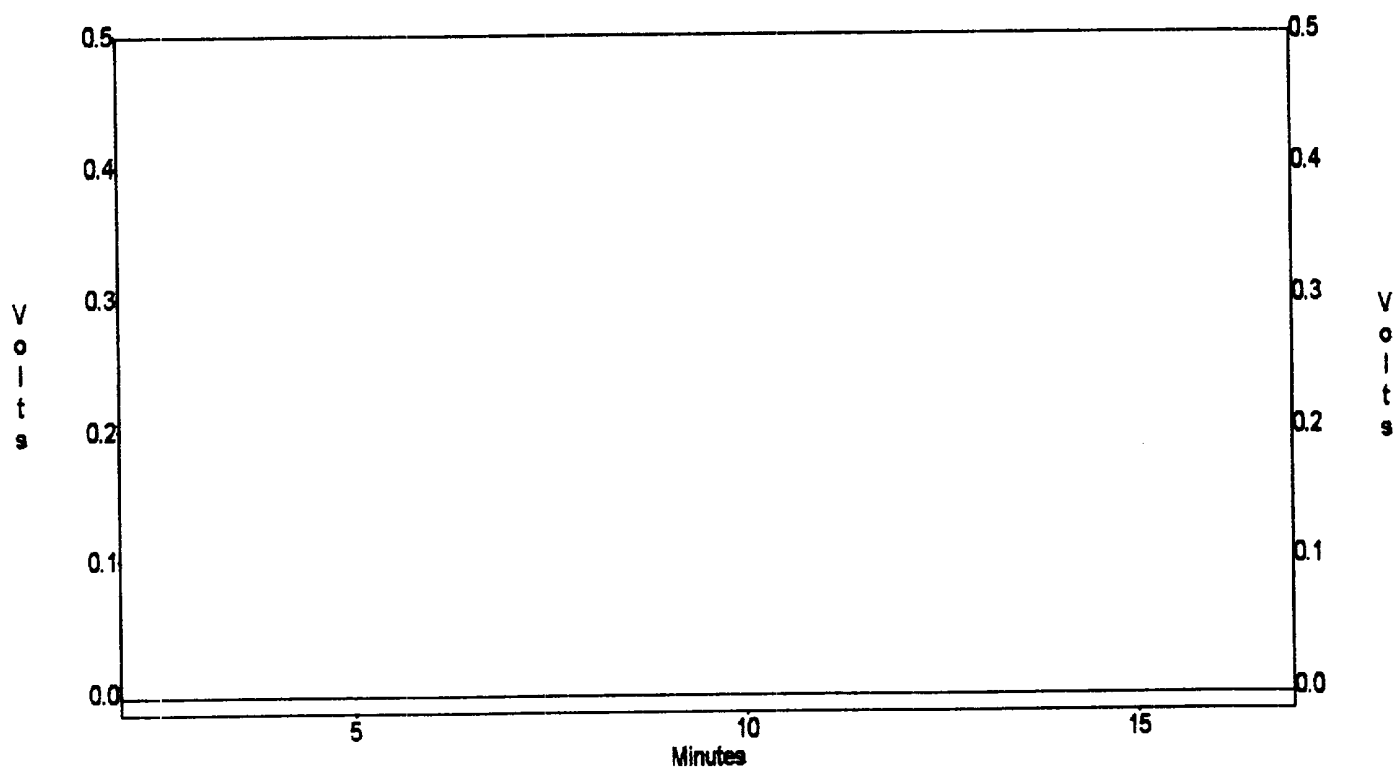
File : C:\LABQUEST\CHROM\946560B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946560,4.80/100uL
Acquired : Jan 23, 1995 22:47:54
Printed : Jan 24, 1995 09:32:55
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.267	0	0.00000	0.0000
a,a,a TFT	5.133	0	0.00000	0.0000
TOLUENE	6.550	0	0.00000	0.0000
ETHYLBENZENE	10.500	0	0.00000	0.0000
M & P XYLENE	10.850	0	0.00000	0.0000
O XYLENE	11.917	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000

Totals : 0 0.0000

C:\LABQUEST\CHROM\946560B - Channel B



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 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase DOT 6000
Project Location Rincon Unit #27, 70881

Elevation _____
Borehole Location T27, R7, S.13, M
GWL Depth _____
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 8/28/95, 0950
Date/Time Completed 8/28/95, 1130

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	5/H5	
0				Backfill to 4'						
5										
10										
15	1	13-15	.7 2.0'	clayey SILT, tan, dense, 5-20% clay					0 199	1025
20		18-20	.4 2.0'	SAA					4 5	1035
25				TOB- 20.0'						
30										
35										
40										

Comments:

18'-20' sample (SEK(A)) sent to lab. 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:	SEK69	947342
MTR CODE SITE NAME:	70881	Rincon Unit #27
SAMPLE DATE TIME (Hrs):	08-28-95	1035
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL:	8/29/95	
DATE OF BTEX EXT. ANAL:	8/30/95	9/3/95
TYPE DESCRIPTION:	V6	Light brown sand & clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 2 ^{0.5}	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)	92	MG/KG			2.0	28
HEADSPACE PID	5	PPM				
PERCENT SOLIDS	92.8	%				

-- 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

* nnon 1 Rv

Date: 9-7-95

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1500 FT-IR
Analysis Report

95/08/29 14:13

Sample identification
947342

Initial mass of sample, g
2.000

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
97.781

Net absorbance of hydrocarbons (2930 cm^{-1})
0.022

ILLEGIBLE

Y: Petroleum hydrocarbons spectrum

14:13

100.03

%T

95.01

3200

3000

2800

cm^{-1}

BTEX SOIL SAMPLE WORKSHEET

File : 947342
Soil Mass (g) : 4.94
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 9/6/95
Multiplier (L/g) : 0.00101
DF (Analytical) : 200
DF (Report) : 0.20243

				Det. Limit
Benzene (ug/L)	: 0.00	Benzene (mg/Kg):	0.000	0.506
Toluene (ug/L)	: 0.00	Toluene (mg/Kg):	0.000	0.506
Ethylbenzene (ug/L)	: 0.00	Ethylbenzene (mg/Kg):	0.000	0.506
p & m-xylene (ug/L)	: 0.00	p & m-xylene (mg/Kg):	0.000	1.012
o-xylene (ug/L)	: 0.37	o-xylene (mg/Kg):	0.075	0.506
		Total xylenes (mg/Kg):	0.075	1.518
		Total BTEX (mg/Kg):	0.075	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090395-1.002
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 947342,4.94G,100U
 Acquired : Sep 02, 1995 15:39:43
 Printed : Sep 04, 1995 08:19:55
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.953	2175263	91.4011
TOLUENE	6.783	235513	-0.0482
ETHYLBENZENE	10.547	88991	-0.0112
M & P XYLENE	10.890	502467	-1.3456
O XYLENE	11.967	52467	0.3671
BFB	13.433	33590804	95.6330

C:\LABQUEST\CHROM001\090395-1.002 - Channel A

