

Denny **EPFS PIF CLOSURE SUMMARY**
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Approved

Rincon Unit # 31
Meter/Line ID - 70892

SITE DETAILS

Legals: Twn: 27 Rng: 7
NMOCD Hazard Ranking: 0
Operator: UNOCAL

Sec: 36 Unit: P
Land Type: STATE

PREVIOUS ACTIVITIES

Site Assessment: 11/22/94
Monitor Well: N/A

Excavation: 12/8/94
Re-Excavation: N/A

Soil Boring: 8/31/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the top of bedrock, which was 7 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 591 ppm at 7 feet bgs. Excavation was terminated and a sample was collected and analyzed for BTEX and TPH. Sample analysis indicated total BTEX to be above standards at 61.9 mg/kg and TPH was below standards at 3,840 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soils. The soil lithology beneath the initial excavation consisted of a tan, fine grained sandstone, which continued to the termination of the boring at 19 feet bgs. A sample was collected for BTEX and TPH analysis at 18-19 feet bgs. Laboratory analysis showed total BTEX to be below laboratory detection limits and TPH present at 372 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 1 excavation.
- The excavation was terminated in bedrock.
- Test boring sample results indicated soils below standards 6 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.

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FIELD PIT SITE ASSESSMENT FORM

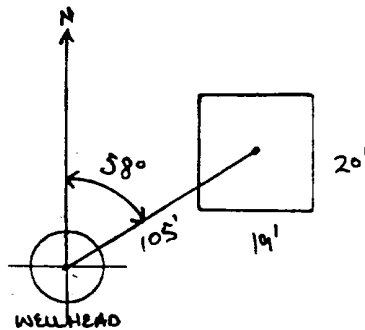
GENERAL	<p>Meter: <u>70892</u> Location: <u>RINCON UNIT #31</u></p> <p>Operator #: _____ Operator Name: <u>UNOCAL</u> P/L District: <u>BLANCO</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>36</u> Township: <u>27</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>11-22-94</u> Area: <u>03</u> Run: <u>22</u></p>
SITE ASSESSMENT	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>NMOCD Zone: (From NMOCD Maps)</p> <p>Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> </div> <div style="width: 50%;"> <p>Land Type:</p> <p>BLM <input type="checkbox"/> (1) State <input checked="" type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> </div> </div> <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 : 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 type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Name of Surface Water Body _____</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>0</u> POINTS</p>
REMARKS	<p>Remarks : <u>REDLINE & TOPO SHOW LOCATION INSIDE ZONE. ONE PIT ON LOCATION. PIT HAS A PLASTIC LINER IN IT. OLD LOCATION DRIP HAS BEEN CLOSED. ITS THE ONE THAT NEEDS TO BE RE-EXCAVATED. DIS-REGARD ORANGE POST ON FENCE. NOTE ORANGE STAKES WHERE PIT USED TO BE.</u></p> <p align="right">DIC 4 LM111</p>

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ORIGINAL PIT LOCATION

REMARKS



PHOTOS - 1224


Signature

Date _____

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>70892</u> Location: <u>RINCON UNIT #31</u></p> <p>Coordinates: Letter: <u>P</u> Section <u>36</u> Township: <u>27</u> Range: <u>7</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>12-8-94</u> Run: <u>03</u> <u>22</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KP 358</u></p> <p>Sample Depth: <u>4'</u> Feet</p> <p>Final PID Reading <u>591</u> PID Reading Depth <u>7'</u> Feet</p> <p>Groundwater Encountered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <p>Excavation <input checked="" type="checkbox"/> Approx. Cubic Yards <u>70</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"/> Tierra <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/> Name: _____</p> <p>Pit Closure Date: <u>12-8-94</u> Pit Closed By: <u>B.E.I</u></p>
REMARKS	<p>Remarks : <u>HIT SANDSTONE AT 7' TOOK SAMPLE CLOSED PIT.</u></p> <p>_____</p> <p>_____</p>
	<p>Signature of Specialist: <u>Kelly Pacheco</u></p>

PHASE I EXCAVATION



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID KP358	Lab ID 946524
MTR CODE SITE NAME:	70892	Rincon Unit #31
SAMPLE DATE TIME (Hrs):	8-Dec-94	1200
PROJECT:	Phase I Excavation	
DATE OF TPH EXT. ANAL.:	12/13/94	12/13/94
DATE OF BTEX EXT. ANAL.:	12/13/94	12/20/94
TYPE DESCRIPTION:	VC	Gray brown fine sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.01	MG/KG				
TOLUENE	10.7	MG/KG				
ETHYL BENZENE	15.4	MG/KG				
TOTAL XYLENES	34.8	MG/KG				
TOTAL BTEX	61.9	MG/KG				
TPH (418.1)	3,840	MG/KG			1.98	28.0
HEADSPACE PID	591	PPM				
PERCENT SOLIDS	88.9	%				

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

The Surrogate Recovery was at 190 % for this sample All QA/QC was acceptable.

Narrative:

The surrogate recovery was high due to co-elution.

DF = Dilution Factor Used

Approved By: _____

Original 12/27/94
Date: Reprint 2/10/98

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

Horizon-Singer Model 1100 FT-IR
Analysis Report

54/12/83 10:37

Sample Identification
844500

Initial mass of sample, g
1.950

Volume of sample after extraction, ml
72.000

Petroleum hydrocarbons, ppm
7038.510

Oil concentration in hydrocarbons (2000 cm⁻¹)
0.474



ILLEGIBLE

duy

BTEX SOIL SAMPLE WORKSHEET

File : 946524C
Soil Mass (g) : 4
Extraction vol. (mL) : 20
Shot Volume (uL) : 200

Date Printed : 12/21/94
Multiplier (L/g) : 0.00125
DF (Analytical) : 100
DF (Report) : 0.12500

			Det. Limit
Benzene (ug/L) :	8.07	Benzene (mg/Kg):	1.009 0.625 ✓
Toluene (ug/L) :	85.65	Toluene (mg/Kg):	10.706 0.625 ✓
Ethylbenzene (ug/L) :	123.08	Ethylbenzene (mg/Kg):	15.385 0.625 ✓
p & m-xylene (ug/L) :	815.39	p & m-xylene (mg/Kg):	101.924 2.500
o-xylene (ug/L) :	411.55	o-xylene (mg/Kg):	51.444 1.250
		Total xylenes (mg/Kg):	153.368 3.750
		Total BTEX (mg/Kg):	180.468

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

File : C:\LABQUEST\CHROM\946524C
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946524,4.00G/200uL
 Acquired : Dec 20, 1994 01:05:12
 Printed : Dec 20, 1994 01:31:27
 User : Tony

Channel A Results

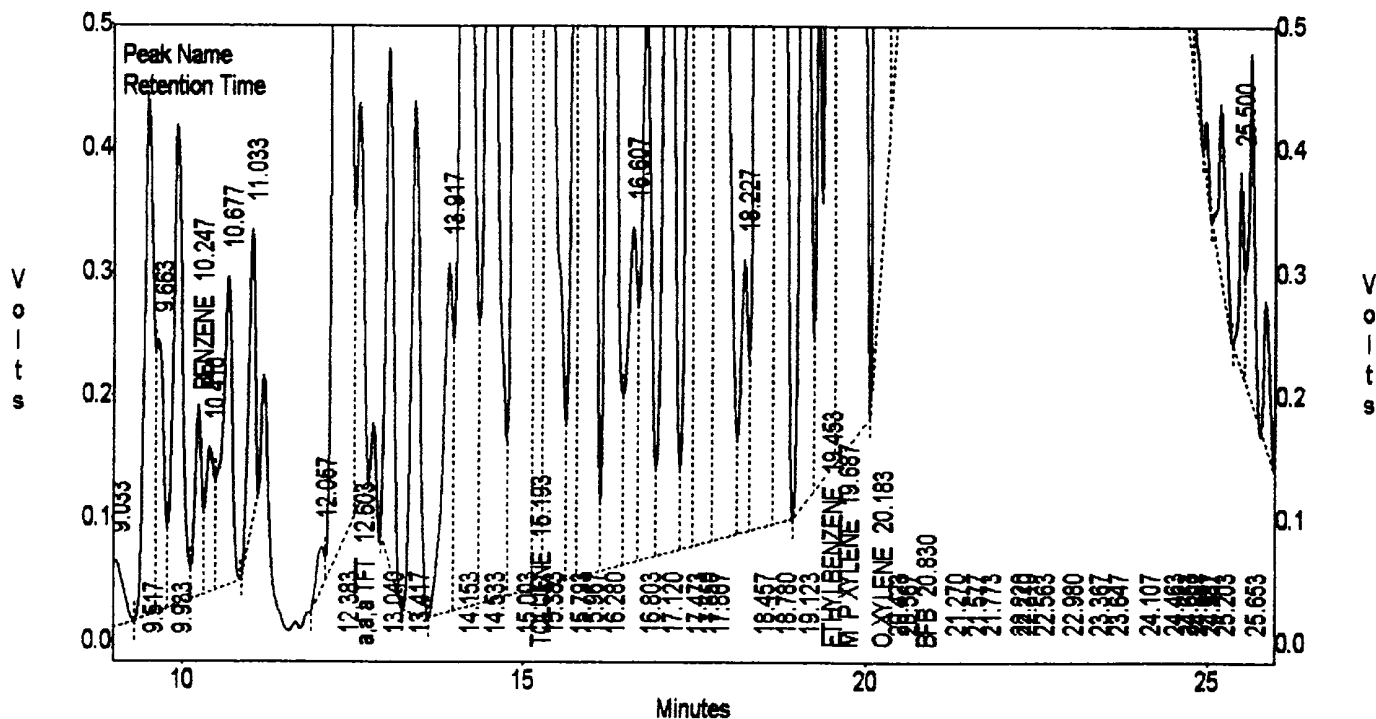
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.247	1086819	131872.92188	8.0720
a,a,a TFT	12.603	2461496	8403.01855	274.5222
TOLUENE	15.193	11479860	148815.51563	85.6523
ETHYLBENZENE	19.453	14777712	132895.85938	123.0797
M & P XYLENE	19.687	105836048	193528.29688	815.3900
O XYLENE	20.183	49035380	142564.65625	411.5511
BFB	20.830	38751296	199747.54688	190.0291

Totals :

223428608

1908.2961

C:\LABQUEST\CHROM\946524C - Channel A



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 601-6000
Project Location Rincon Unit #31, 7089Z

Elevation _____
Borehole Location T27, R7, S.36, P
GWL Depth _____
Logged By S.Kelly
Drilled By M. Danahue
Date/Time Started 8/3/95, 0850
Date/Time Completed 8/3/95, 1025

Well Logged By S.Kelly
Personnel On-Site M. Danahue, J.O'Keefe
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4x4" 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 7'						
5										
10										
15										
20	1	18- 20	.55' 20'	SAND, light tan, fine sand, v. dense, dry. poorly graded						Drilling very slow at 9.5' like rock ↓ 76 0925 433
25				TOB - 20' at 8/3/95 19.0' Auger Refusal at 19.0'						
30										
35										
40										

Comments:

18'-20' sample (SEK 72) 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:	SEK 72	947384
MTR CODE SITE NAME:	70892	Rincon Unit #31
SAMPLE DATE TIME (Hrs):	08-31-95	0925
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-5-95	
DATE OF BTEX EXT. ANAL.:	9/1/95	9/6/95
TYPE DESCRIPTION:	VG	LIGHT GRAY SAND & SANDSTONE

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)	372	MG/KG			2.02	28
HEADSPACE PID	433	PPM				
PERCENT SOLIDS	95.5	%				

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

The Surrogate Recovery was at 94% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: AS

Date: 9-11-95

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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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95/09/05 13:48

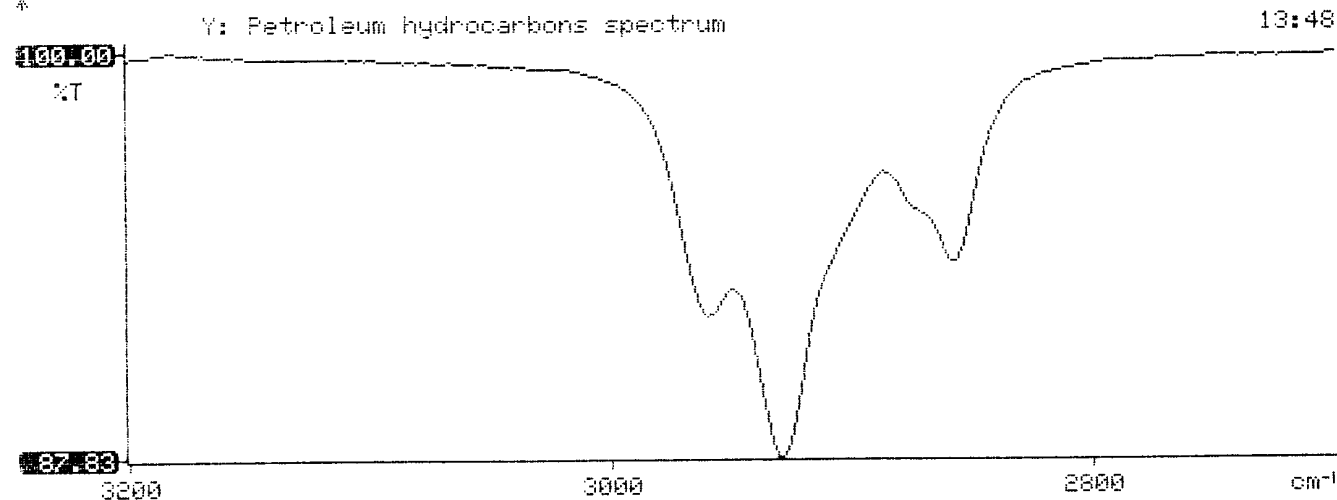
* Sample identification
947384

* Initial mass of sample, g
2.020

* Volume of sample after extraction, ml
29.000

* Petroleum hydrocarbons, ppm
371.991

* Net absorbance of hydrocarbons (2930 cm⁻¹)
0.056



BTEX SOIL SAMPLE WORKSHEET

File : 947384
Soil Mass (g) : 4.94
Extraction vol. (mL) : 20
Shot Volume (uL) : 100

Date Printed : 9/7/95
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) :	0.40	Toluene (mg/Kg):	0.081	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) :	0.48	o-xylene (mg/Kg):	0.097	0.506
		Total xylenes (mg/Kg):	0.097	1.518
		Total BTEX (mg/Kg):	0.178	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090695-1.015
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 947384.4.94G,100U
 Acquired : Sep 06, 1995 18:10:34
 Printed : Sep 06, 1995 18:36:59
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.973	1984770	83.3969
TOLUENE	6.803	308978	0.4014
ETHYLBENZENE	10.570	81074	-0.0652
M & P XYLENE	10.920	659771	-0.3778
O XYLENE	11.977	68633	0.4785
BFB	13.467	32932162	93.7579

C:\LABQUEST\CHROM001\090695-1.015 -- Channel A

