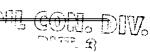
DEL 2 [11998

PATTERSON #1 PC Meter/Line ID - 94280





SITE DETAILS

Legals - Twn: 30

Rng: 08

Sec: 20

Unit: I

NMOCD Hazard Ranking: 20

Land Type: 2 - Federal

Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 05/01/95

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	Meter: 94280 Location: Patterson #1 Pc Operator #: Operator Name: Amoco P/L District: Bloomfield Coordinates: Letter: Section 20 Township: 30 Range: 8 Or
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: State (1) Fee (3) Indian 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)
ASSESSMENT	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)
SITE ASS	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 Gobernador Canyon
	(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: 20 POINTS
REMARKS	Remarks: Red Line shows inside Topo shows inside UZ 2 pits on Loc. Loc Orip belongs to EPNG will close pit Not sure of ownership on Dehy pit will check into further

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94280 Location: PATUSON # 1 PC Coordinates: Letter: I Section ? Township: 30 Range: 08 Or Latitude Longitude — Date Started: 5/1/95 Run: 10 63
FIELD OBSERVATIONS	Sample Number(s): KD 407 Sample Depth: 4' Feet Final PID Reading 356 Provided PID Reading Depth 4' Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 5/1/95 Pit Closed By: 400 BET
REMARKS	Remarks: Hit Sand Store at 4' on Excavation, Dug pit to Center of Berms, All Contamination Lay on top of Sand stone Took pid Sample, closed pit.
	Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 407	946773
MTR CODE SITE NAME:	94280	N/A
SAMPLE DATE TIME (Hrs):	5-1-95	1105
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	5-4-95	5-4-95
DATE OF BTEX EXT. ANAL.:	5/4/95	5/5/95
TYPE DESCRIPTION:	slaigs VG VC	BROWN ERNA + ELIFY

REMARKS:	

RESULTS

PARAMETER	RESULT	RESULT UNITS		QUALIFIERS				
PANAME LEN			DF Q	M(g) V(ml)				
BENZENE	41.54	MG/KG	0.30722	4.34 .20				
TOLUENE	15.8	MG/KG						
ETHYL BENZENE	5,50	MG/KG						
TOTAL XYLENES	102	MG/KG	1 1					
TOTAL BTEX	124	MG/KG						
TPH (418.1)	3360	MG/KG		202 28				
HEADSPACE PID	356	PPM						
PERCENT SOLIDS	87.5	%						

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

The Surrogate Recovery was at	103	_% for this sample	All QA/QC was acceptable.
Narrative:			

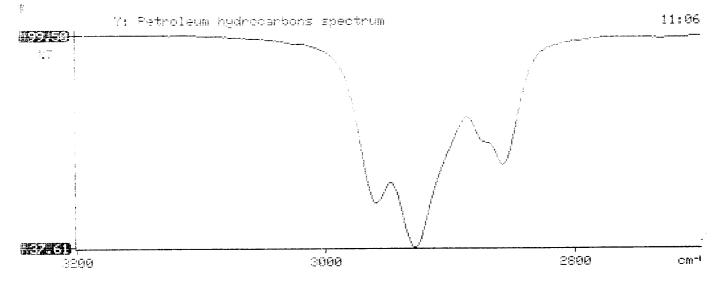
DF = Dilution Factor Used

Annroved By:

You Jake

Date: 9 5/24/9

```
Test Method for
    Oll and Grease and Petroleum Hydrocarbons
             in Water and Soil
                                         *
         Perkin-Elmer Model 1600 FT-IR
              Analysis Report
95/05/04 11:04
Sample identification 946775
  initial mass of sample, g
2.020
 Volume of sample after extraction, ml
 Petroleum hydrocarbons, ppm
3363.674
Net absorbance of hydrocarbons (2930 cm-1)
\mathcal{X}
```



BTEX SOIL SAMPLE WORKSHEET

File :	946773A	Date Printed	:	5/9/95
Soil Mass (g)	4.34	Multiplier (L/g)	:	0.00115
Extraction vol. (mL)	20	DF (Analytical)	:	266.667
Shot Volume (uL)	75	DF (Report)	:	0.30722

						Det. Limit
Benzene	(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	1.536
Toluene	(ug/L) :	51.47	Toluene	(mg/Kg):	15.813	1.536
Ethylbenzene	(ug/L) :	17.90	Ethylbenzene	(mg/Kg):	5.499	1.536
p & m-xylene	(ug/L) :	254.97	p & m-xylene	(mg/Kg):	78.332	3.072
o-xylene	(ug/L) :	77.79	o-xylene	(mg/Kg):	23.899	1.536
-			Total xylenes	(mg/Kg):	102.230	4.608

Total BTEX (mg/Kg): 123.542

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946773A Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 946773,4.34/75uL Acquired : May 05, 1995 15:15:23 Printed : May 05, 1995 15:41:42

User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.470	0	0.0000
a,a,a TFT	4.980	4596993	156.8388
TOLUENE	6.820	12627776	51.4699
ETHYLBENZENE	10.593	4211865	17.8979
M & P XYLENE	10.970	61198800	254.9749
O XYLENE	12.010	16099347	77.7931
BFB	13.500	12123872	103.1406

C:\LABQUEST\CHROM001\946773A - Channel A 0.5 Peak Name Retention Time 0.4 0.3 ٧ 0 0 1 t 0.2 0.2 0.1 0.1 15 10 **Minutes**

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946773A Method : C:\LABQUEST\METHODS\9001.MET

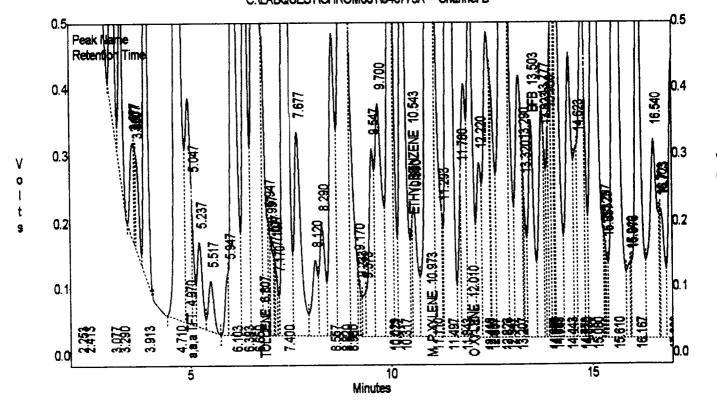
Sample ID : 946773,4.34/75uL Acquired : May 05, 1995 15:15:23 Printed : May 05, 1995 15:41:48

User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.470	0	0.0000
a,a,a TFT	4.970	2939302	314.0763
TOLUENE	6.807	2485514	52.9945
ETHYLBENZENE	10.543	381954	9.7087
M & P XYLENE	10.973	17669472	363.9149
O XYLENE	12.010	5217205	113.9515
BFB	13.503	3116640	296.3910

C:\LABQUEST\CHROM001\946773A -- Channel B



PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Fermington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation
Borehole Location 730, R 8, S.20, T

GWL Depth
Logged By S.Kelly

Drilled By M. Dorohu
Date/Time Started 11/6/95
Date/Time Completed 1/6/95

Vell #
Page of I

 Project Name
 EPNG Pits

 Project Number
 14509
 Phase
 591 C000

 Project Location
 Patterson #IR, 94280

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

Drilling Method 4/4" ID HS/A
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)	1	*Air Monitoring Drilling Conditions Units: NDU & Blow Counts BZ BH S	
0				Backfill to approx. 61		•	•		
10				,		عد			drilling Lard, like rock
15			ļ						V
20	1	20 18-	55/20	silty SAND, tan, 5-2090 silt, fine sand, v. dense, dry		21		856	1045
25	2	23- 25	5/20	SAND, tan, fine tomed. sand. v.dense, dry		26		186 258	1055
30	3	28- 30	71/20	silty SAND, rust, 5-20% silt, fine to med sand, vdense, dry		32		17) 9 83 4	1105
35	4	33- 35	70	SAND, rust, fine tomed sand u. dense, dry				9/7	1115 N
40	6	38- 40	.55°	SHA 40B = 40.01		-	• .	34	1125

Geologist Signature Sauch Lelly

38-40 sample (SEK 103) sent to 12b, (BTEX a TPH) Sample was
broaded and iced prior to being put in jar. By grouted
to surface.

Geologist Signature Sauch Lelly



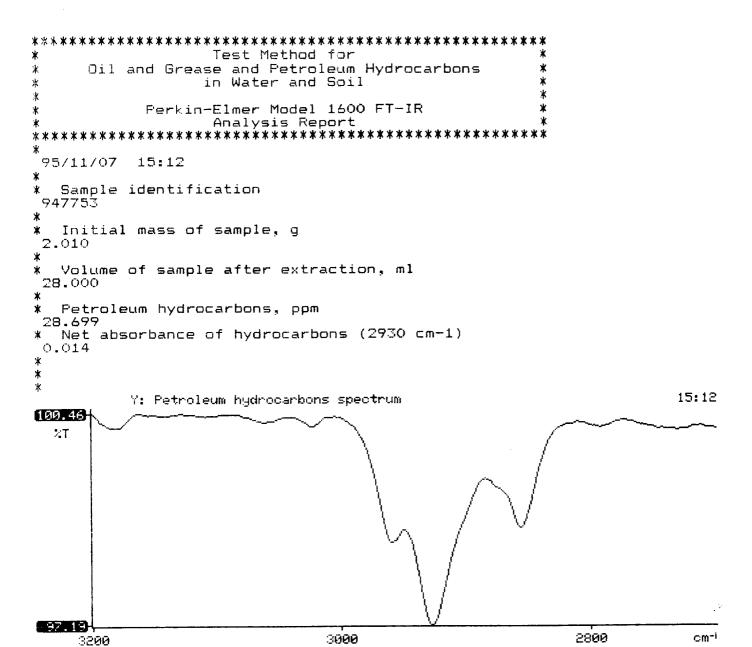
FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

					·		
	Field	ID		Lab ID			
SAMPLE NUMBER:	5EK103		947753				
MTR CODE SITE NAME:	94280		Patterson#1 PC				
SAMPLE DATE TIME (Hrs):	11-06-9	5	11	25			
PROJECT:	Phase I	-Drillia					
DATE OF TPH EXT. ANAL.:	11.7-9	5					
DATE OF BTEX EXT. ANAL.:	11/7/95			/95			
TYPE DESCRIPTION:	VG	<u>.</u>	OARK BROW	UN COURTE AR	no races		
Field Remarks:							
	F	RESULTS		-: -: -: -: -: -: -: -: -: -: -: -: -: -			
Company of Care Page 1							
PARAMETER	RESULT	UNITS	DF	QUALIFI Q	M(g)*	V(mt)*	
BENZENE	4 0.5	MG/KG					
TOLUENE	4 0.5	MG/KG					
ETHYL BENZENE	4 0.5	MG/KG					
TOTAL XYLENES	< 1.5	MG/KG					
TOTAL BTEX	43	MG/KG					
TPH (418.1)	28.7	MG/KG	638846.0		2.01	28	
HEADSPACE PID	14	PPM					
PERCENT SOLIDS	943	%					
The Surrogate Recovery was at Narrative:	TPH is by EPA Method			o OC was accept	able.		

DF = Dilution Factor Used



BTEX SOIL SAMPLE WORKSHEET

File	e :	947753	Date Printed :	11/8/95
Soil Mas	s (g):	4.99	Multiplier (L/g) :	0.00100
Extraction vol. (mL):		10	CAL FACTOR (Analytical):	200
Shot Volume (uL):		50	CAL FACTOR (Report):	0.20040
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L) :	0.15	Benzene (mg/Kg):	0.030 0.501
Toluene	(ug/L) :	0.33	Toluene (mg/Kg):	0.066 0.501
Ethylbenzene	(ug/L) :	0.13	Ethylbenzene (mg/Kg):	0.026 0.501
p & m-xylene	(ug/L) :	0.55	p & m-xylene (mg/Kg):	0.110 1.002
o-xylene	(ug/L) :	0.27	o-xylene (mg/Kg):	0.054 0.501
-	·		Total xylenes (mg/Kg):	0.164 1.503
			Total BTEX (mg/Kg):	0.287

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

: C:\LABQUEST\CHROM000\110795-0.010 File : C:\LABQUEST\METHODS\0-110295.MET Method

Sample ID : 947753,4.99G,50U Acquired : Nov 07, 1995 20:38:37 : Nov 07, 1995 21:09:01 Printed

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.440	71130	0.1458
TOLUENE	13.073	180449	0.3346
ETHYLBENZENE	17.347	59382	0.1328
M, P-XYLENES	17.723	302588	0.5532
O-XYLENE	18.890	120716	0.2654
BFB	19.907	57187920	108.1932

