EPFS PIT CLOSURE SUMMARY

DEPUTY OIL & GAS INSPECTOR

JUL 1 7 1998

Walker Com No. 2 Meter/Line ID - 70666

SITE DETAILS

Legals - Twn: 31 Rng: 9 Sec: 32 Unit: K

NMOCD Hazard Ranking: 40 Land Type: BLM

Operator: Amoco

PREVIOUS ACTIVITIES

Site Assessment: 8/30/94 Excavation: 9/19/94 Soil Boring: 7/26/95 Monitor Well: N/A Re-Excavation: N/A Geoprobe: N/A

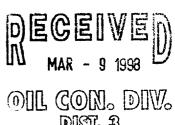
CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 584 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 97.5 mg/kg and TPH was above standards at 11,400 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 beneath the excavation consisted of a dark gray, fine grained silty sand, which continued to approximately 27 feet bgs. At 27 feet bgs an olive brown, clayey silt was encountered and continued to approximately 36 feet bgs. At 36 feet bgs the soil lithology changed again to a hard, brown, fine grained sand, which continued to the termination of the boring at 40 feet bgs. A soil sample was collected for BTEX and TPH analysis at 38-40 feet bgs. Laboratory analysis showed total BTEX and TPH to be below standards at .156 mg/kg and 48.3 mg/kg respectively.

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 26 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.



FIELD PIT SITE ASSESSMENT FORM

CENTEDAT	GENEVAL	Meter: 70-666 Location: Walker COM No. Z Operator #: 0203 Operator Name: Broducto P/L District: Hztec Coordinates: Letter: K Section 32 Township: 31 Range: 9 Or Latitude Longitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/30/94 Area: 04 Run: 83
REMARKS SITE ASSESSMENT		NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Free (2) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Greater Than 1000 Ft (0 points) Greater Than 1000 Ft (10 points) Greater Body Hano Canyan Guillo Dillo MAR - 9 1998 Courface 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: HO POINTS Remarks: Relline Book - Inside Seven pits, location drip pit has liquid in it, Will close one pits.

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70-66 Location: WALKER Com #2 Coordinates: Letter: K Section32 Township: 31 Range: 9 Or Latitude Longitude Date Started: 9-19-94 Run: 04 83
FIELD OBSERVATIONS	Sample Number(s): KO 266 Sample Depth: 12' Feet Final PID Reading 584 PPm PID Reading Depth 12' Feet Yes No Groundwater Encountered
CLOSIIRE	Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9/19/94 Pit Closed By: REL
DANTABLE	Remarks: Excavated pit to 12', Took pid Sample, Closed Signature of Specialist: http://www.



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 266	946158
MTR CODE SITE NAME:	70666	N/A
SAMPLE DATE TIME (Hrs):	9-19-94	1345
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	9-20-94	9-20-94
DATE OF BTEX EXT. ANAL.:	9-22.94	9-25-94
TYPE DESCRIPTION:	VC	Black Sand Clay
TIFE DESCRIPTION	The state of the s	

REMARKS:	

RESULTS

	prejut	RESULT UNITS	QUALIFIERS			
PARAMETER	RESULI		DF	Ω	M(g)	V(ml)
BENZENE	0.89	MG/KG	1			
TOLUENE	15	MG/KG	1			
ETHYL BENZENE	8.4	MG/KG	1			
TOTAL XYLENES	73	MG/KG				
TOTAL BTEX	97.5	MG/KG				
TPH (418.1)	11400	MG/KG	> 47a.		0.58	28
HEADSPACE PID	594	PPM				
PERCENT SOLIDS	84.6	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -
The Surrogate Recovery was at 80 % for this sample All QA/QC was acceptable.

Narrative:

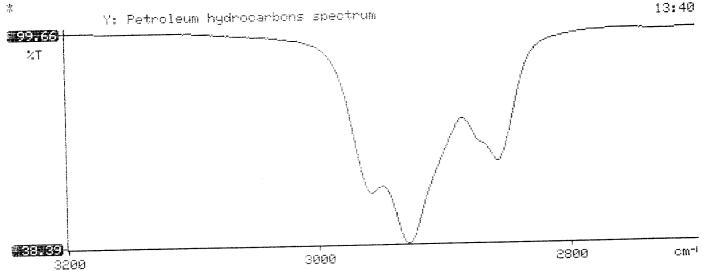
AT 1 Results which will be a surrounded and a surrounde

DF = Dilution Factor Used

Approved By:

Date: 10/33/44

******************* Test Method for Oil and Grease and Petroleum Hydrocarbons *in Water and Soil 來 Perkin-Elmer Model 1600 FT-IR 潔 Analysis Report *********************** *13:40 94/09/20 崇 Sample identification $_{x}$ 946158 Initial mass of sample, g Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 11369.420 Net absorbance of hydrocarbons (2930 cm-1) 0.412 * * 7 Y: Petroleum hydrocarbons spectrum





ATI I.D. 409389

September 29, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/21/94, 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

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS

ATI I.D.: 409389

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	946158	NON-AQ	09/19/94	09/22/94	09/25/94	1
14	946159	NON-AQ	09/19/94	09/22/94	09/25/94	1
PARAM	IETER		UNITS	13	14	
BENZE			MG/KG	0.89	<0.025	
TOLUE			MG/KG	15	<0.025	
_	LBENZENE		MG/KG	8.6	<0.025	
TOTAL XYLENES			MG/KG	73	0.14	
SURRO	DGATE:			0.0	93	

BROMOFLUOROBENZENE (%)

80

92

PHASE II

RECORD OF SUBSURFACE EX. JRATION

Philip Environmental Services Corp.

4000 Monroe Road

Borehole Location

Date/Time Started

Elevation

GWL Depth

Logged By Drilled By

Farmington, New Mexico 87401 (506) 326-2262 FAX (506) 326-2388 Page

Project Name Project Number Project Location **EPNG Pits**

Phase 14509 Walker COM No.

Well Logged By Personnel On-Site

Client Personnel On-Site

S.Kelly

Contractors On-Site

M. Donohue, D.Charley

Drilling Method

/Time : /Time :	•			·				
epth Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU 5/H BZ BH	Drilling Conditions & Blow Counts
0				Backfill				
5				to 121				
10						A		
- - 15				5ilty SAND, dkgrey, 5-15% silt, fine som	<u>d</u> ,			
15 - - - - 20		19-	131	1005e, damp.			126	1250
	İ	1	1	5AH			<u>Z1</u> 331	1255
20 				clayer SILT, olive brown 5-1590 Clay, stiff, dry	7)	27	310	1300 hard drilling, li
 - - - - 31	5 4	33- 35		5AA		36	13/7	3 320
- - -		38	7'	SAND, rust/brown, fix sand, hard, dry.	1e			1350

Comments:

38'-40' Sample (SEX41) Sent to lab (BTEX 4TPH.) BH

growted to surface.

Geologist Signature

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK41	947086
MTR CODE SITE NAME:	70666	N/A
SAMPLE DATE TIME (Hrs):	07-26-95	13:50
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	07-27-95	07-27-95
DATE OF BTEX EXT. ANAL.:	8-1-95	8-1-95
TYPE DESCRIPTION:	V6	

REMARKS:	

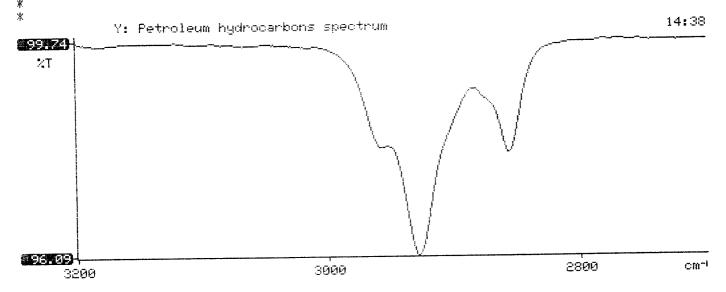
RESULTS

	RESULT	UNITS	QUALIFIERS			
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE	20.025	MG/KG	1			
TOLUENE	20.025	MG/KG	1			
ETHYL BENZENE	0.026	MG/KG	١			
TOTAL XYLENES	0.13	MG/KG				
TOTAL BTEX	0.156	MG/KG				
TPH (418.1)	48.3	MG/KG			1.97	28
HEADSPACE PID	7	PPM				
PERCENT SOLIDS	88.2	%				4

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --% for this sample All QA/QC was acceptable. The Surrogate Recovery was at Narrative:

DF = Dilution Factor Used

****************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil * Perkin-Elmer Model 1600 FT-IR 95/07/27 14:38 Sample identification 947086 Initial mass of sample, g 4 Volume of sample after extraction, ml Petroleum hydrocarbons, ppm 48.322 Net absorbance of hydrocarbons (2930 cm-1) 0.016





ATI I.D. 508302

August 11, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I & II 24324

Attention: John Lambdin

On 08/01/95, 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.

Kimberly D. McNeill Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Farmington

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 508302

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPI		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	4 CLIENT I.D. 947086	NON-AQ	07/26/95	08/01/95	08/01/95	1
	947087	NON-AQ	07/26/95	08/01/95	08/01/95	1
05 06	947087	NON-AQ	07/26/95	08/01/95	08/01/95	1
06			UNITS	04	05	06
	METER		MG/KG	<0.025	<0.025	<0.025
BENZI			MG/KG	<0.025	<0.025	<0.025
TOLUI			MG/KG	0.026	<0.025	<0.025
	LBENZENE		MG/KG	0.13	0.030	<0.025
TOTAL XYLENES			MG/ KG	0.13		
SURR	OGATE:			111	109	103
BROM	OFLUOROBENZENE (દ્રે)		111	109	103