EPFS PIT CLOSURE SUMMARY

DEPUTY OIL & GAS INSPECTOR

JUL 1 7 1998

Riddle No. 1 Meter/Line ID - 70657

Legals - Twn: 25

Rng: 7

NMOCD Hazard Ranking: 40

Operator: Jack Foster

SITE DETAILS

Sec: 4

Unit: B

Land Type: FEE

PREVIOUS ACTIVITIES

Site Assessment: 6/29/94 Monitor Well: N/A Excavation: 7/14/94

Re-Excavation: N/A

Soil Boring: 8/3/95 Geoprobe: N/A

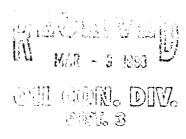
CONCLUSIONS

The initial excavation was excavated to the top of bed rock, which was 10 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 567 ppm at 10 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at 20 mg/kg, and TPH was above standards at 534 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A brown shale was encountered at 15 feet bgs and continued to 18 feet bgs where the boring was terminated due to auger refusal. A soil sample was collected for BTEX and TPH analysis at 15-16 feet bgs. Laboratory analysis showed all BTEX compounds to be below standards at .074 mg/kg and TPH present at 74.6 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 dug to the top of a very hard shale, which would prevent further downward migration of residual hydrocarbons.
- Test boring sample results indicated soils below standards 5 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.

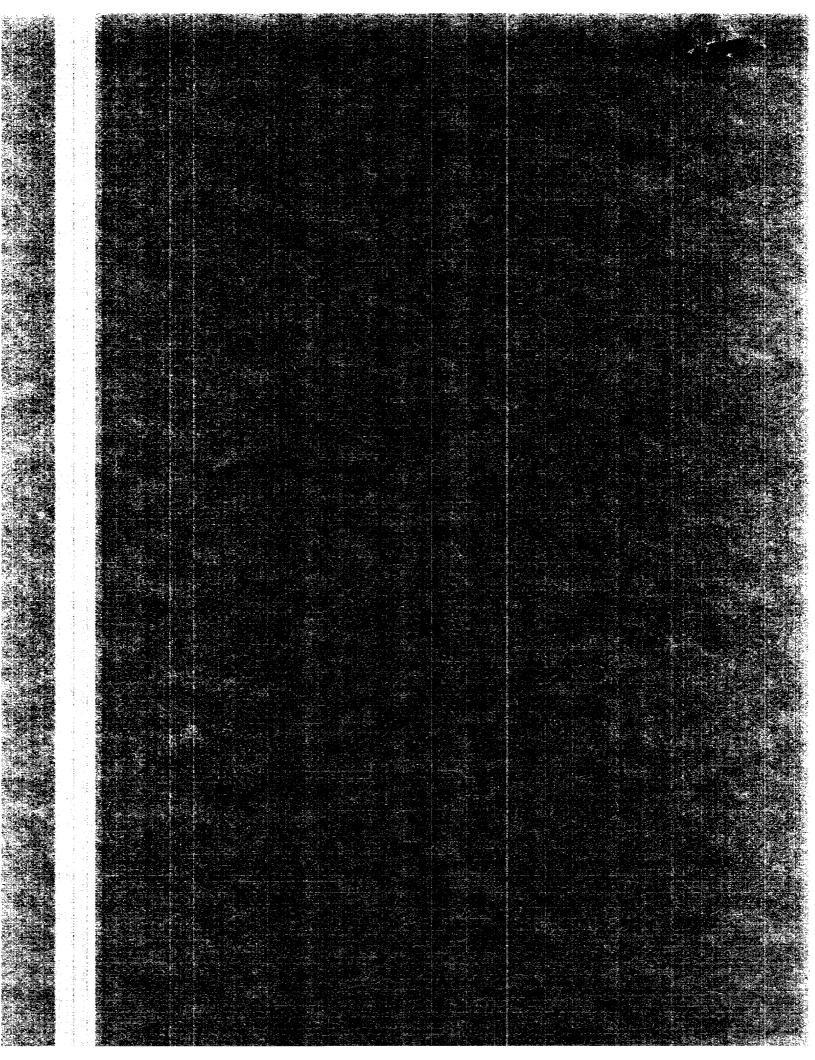


FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 70-657 Location: Riddle No. 1 Operator #: 4250 Operator Name: Jack Foster/L District: Ballard						
EN	Coordinates: Letter: B Section 4 Township: 25 Range: 7						
9	Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other:						
	Site Assessment Date: 06/29/94 Area: 07 Run: 41						
	NMOCD Zone: (From NMOCD Land Type: BLM (1)						
	Maps) Inside $\nabla (1)$ State (2)						
	Outside (2) Fee (3) Fee 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:						
EN	Is it less than 1000 ft from wells springs or other and						
SSM	Literia Marci extractions of the it loop them ago it is						
ASSESSMENT	definestic water source? (1) YES (20 points) (2) NO (0 points)						
	Horizontal Distance to Surface Water Body						
ITE	Less Than 200 Ft (20 points) (1) DECEIVED 200 Ft to 1000 Ft (10 points) (2)						
Ω	Greater Than 1000 Ft (0 points) (3)						
	Name of Surface Water Body Palluche Conyon @ [] CON. DIV.						
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)						
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)						
	$\square (2) > 100'$						
	TOTAL HAZARD RANKING SCORE: 40 POINTS						
KS	Remarks: Redline Book-Insidie Vulnerable Zone Ton Til						
REMARKS	One pit, pit is dry, will close one pit						
RE	0						
	DIG 4 HAUL						

	ODIGINAL DIM LOGIMAGE
	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North 213° Footage from Wellhead 98'
	b) Length: Z8' Width: ZZ' Depth: 4'
z	, and the booking
10	★
AT	1
LOCATION	
PIT	
1	1 2011/40-00
ORIGINAL	Wellhead Z13°
<u>[5]</u>	
OR	ag'
	7
i	[/ ₂₂ /
	28'
	Remarks:
	P: 1 -26 11/06 (21 -20)
:	Pictures 1406 (21-25)
	Pictures 1406 (21-25) Dump Truck
	Pictures 1406 (21-25) Dump Truck
KS	Pictures 1406 (21-25) Dump Truck
	Pictures 1406 (21-25) Dump Truck
	Pictures 1406 (21-25) Dump Truck
REMARKS	Pictures 1406 (ZI-ZS) Dump Truck
	Pictures 1406 (ZI-ZS) Dump Truck
REMARK	Pictures 1406 (ZI-ZS) Dump Truck
REMARK	Pictures 1406 (21-25) Dump Truck
REMARK	Pictures 1406 (21-25) Dump Truck
REMARK	Pictures 1406 (21-25) Dump Truck Completed By:
REMARK	Completed By:
REMARK	Completed By:
REMARK	Dump Truck

PHASE I EXCAVATION



FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70657 Location: Riddle #1 Coordinates: Letter: B Section Y Township: 25 Range: 7 Or Latitude Longitude Date Started: 7/14/94 Run: 07 41
FIELD OBSERVATIONS	Sample Number(s): KD 149 Sample Depth: 10' Feet Final PID Reading 567 ppm PID Reading Depth 10 Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 7/15/94 Pit Closed By: BET
REMARKS	Remarks: Excavated pit to 10', Hit a hard Layer of Shake took PiD Sample, Closed pit. Signature of Specialist: humy Demen



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 149	945684
MTR CODE SITE NAME:	70657	N/A
SAMPLE DATE TIME (Hrs):	7-15-94	0 935
SAMPLED BY:	N	I/A
DATE OF TPH EXT. ANAL.:	7/19/94	7/994
DATE OF BTEX EXT. ANAL.:	7/24/94	7/24/94
TYPE DESCRIPTION:	VC	DK Brown Clay

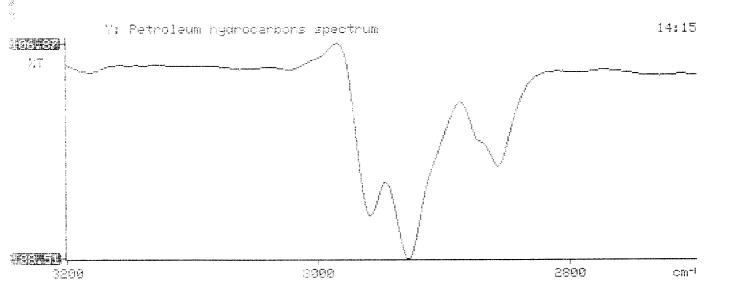
REMARKS:	

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS					
			DF	Q	M(g)	V(mi)		
BENZENE	۷٥,5	∜IG/KG	20					
TOLUENE	20.5	MG/KG	20					
ETHYL BENZENE	40.5	MG/KG	20					
TOTAL XYLENES	18	MG/KG	20					
TOTAL BTEX	20	MG/KG						
TPH (418.1)	534	MG/KG			2.0	28		
HEADSPACE PID	567	PPM						
PERCENT SOLIDS	87.36	87,4 %						
TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 —								

The Surrogate Recovery was at	% for this sample All QA/QC was acceptable.
Narrative: AT I results	attached. Surrogate recovery was
	ac limits due to matrix interference
OF = Dilution Factor Used	8/12/01

Test Mel..od for Dil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR 24/07/19 14:15 147 Sample identification 745634 Initial mass of sample, g 2.100 - Volume of sample after extraction, ml 28,000 Petroleum hydrocarbons, ppm 533.524 Net absorbance of hydrocarbons (2930 cm-1)





ATI I.D. 407376

July 27, 1994

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



Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 07/20/94, 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

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407376

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945683	NON-AQ	07/15/94	07/21/94	07/21/94	1
11	945684	NON-AQ	07/15/94	07/24/94	07/24/94	20
12	945685	NON-AQ	07/15/94	07/21/94	07/22/94	1
PARAM	METER		UNITS	10	11	12
BENZE	ENE		MG/KG	<0.025	<0.5	<0.025
TOLUE	ENE		MG/KG	<0.025	<0.5	<0.025
ETHYLBENZENE			MG/KG		<0.5	<0.025
TOTAL	L XYLENES		MG/KG	<0.025	18	<0.025
SIIRRO	OGATE:					
		(%)		99	118*	91

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Burlington	ı Eu	Euvironmental				
4000 Monre	oe Ro	ad				
Farmington,	New	Mexico	87401			

Farmington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388

Elevation	
Borehole Location	iettor B = 54-T250B7
GWL Depth	
Logged By	J.F. LaBarbera
Drilled By	K. Padilla
Date/Time Started	8/3/95 - 1417
Date/Time Comple	

BH-1 Project Name **EPNG PITS** 6000.77 14509 Phase Project Number **Project Location** Well Logged By J.F. LaBarbera Personnel On-Site K. Padilla, F. Rivera, D. Charlie Contractors On-Site Client Personnel On-Site **Drilling Method** 4 1/4 ID HSA

PID, CGI

Air Monitoring Method

		Sample			Depth				
Depth	Sample Sample		Sample Description	uscs	Lithology	Ai	r Monitor	ring	Drilling Conditions
(Feet)	Number Interval		Classification System: USCS	Symbol	Change	ι	Jnits: pp	m 45	& Blow Counts
		(inches)	·		(feet)	ΒZ	вн	S	
5 - 10 - 15 - 20 - 35 - 35 - 40	2 18-		Brawn, mod hand, SHALE dre, 51. adar Ha Recovery TOB at 18th Refusal	X	(fcot)				V. hard drilling Refusal 1439

Comments:

Jample JFL 44 + 45 (Dupe) from 15-16 sent to lob for BTEXI TPH analysis OA/QC Sangle JFL 46 also taken.

Geologist Signature

for John Low



FIELD SERVICES LABORATORY

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICA	HON			
	Field		Т	Lab ID		
SAMPLE NUMBER:	JFL 4	4	95	947/43		
MTR CODE SITE NAME:	70657			N/A		
SAMPLE DATE TIME (Hrs):	08/03/9			27		
SAMPLED BY:			I o	" 0 =		
DATE OF TPH EXT. ANAL.:	8-	4-95 9-95	8-	9-95		
DATE OF BTEX EXT. ANAL.:		9-95	, ,	· •		
TYPE DESCRIPTION:	VG		light	DVoron	Cary 1	
REMARKS:					·	
		RESULTS			······································	
PARAMETER	RESULT	UNITS	DF	QUALIF	FIERS M(g)	V(ml)
BENZENE	0.032	MG/KG				
TOLUENE	0.042	MG/KG)			
ETHYL BENZENE	20.025	MG/KG	1			
TOTAL XYLENES	L0.025	MG/KG				
TOTAL BTEX	\$0.074	MG/KG				
TPH (418.1)	7466	MG/KG			2.14	28
HEADSPACE PID	249	PPM				
PERCENT SOLIDS	89.9	%				
The Surrogate Recovery was at Narrative:	TPH is by EPA Method 98 Lattache	418.1 and BTEX is by 8 % for this sample			otable.	
DF = Dilution Factor Used						-

Approved By:

******************************* Test M**etho**d for * Oil and Grease and Petroleum Hydrocarbons in Water and Soil * * Perkin-Elmer Model 1600 FT-IR Analysis Report ******************* 95/08/04 13:25 常 Sample identification 947143 Initial mass of sample, p 2.140 Volume of sample after extraction, ml Petroleum hydrocarbons, zem 74.588 Net absorbance of hydr**ocar**bons (2930 cm-1) 0.020 凇 * Y: Petroleum hydroc**arb**ons spectrum 13:25 %T 14 14

3000

2800

cm-I

3200



ATI I.D. 508342

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

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If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill

Project Manager

Malall

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 508342

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPI	Æ		DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	947141	NON-AQ	08/03/95	08/09/95	08/10/95	1
05	947142	NON-AQ	08/03/95	08/09/95	08/09/95	1
06	947143	NON-AQ	08/03/95	08/09/95	08/09/95	1
PARAMETER			UNITS		05	06
BENZENE			MG/KG		<0.025	0.032
TOLUENE			MG/KG		<0.025	0.042
ETHYLBENZENE			MG/KG		<0.025	<0.025
TOTAL XYLENES			MG/KG		<0.025	<0.025
SURRO	GATE:					
BROMO	OFLUOROBENZENE (s)		98	104	98