D SERVICES RODUCTION PIT CLOSURE

EPNG COM B LS 3A Meter/Line ID - 90372

SITE DETAILS

Legals - Twn: 31

Rng: 10

Sec: 32

Unit: E

Land Type: 1 - State

NMOCD Hazard Ranking: 40 Operator: AMOCO PRODUCTION COMPANY

Pit Closure Date: 09/14/94

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 environment. the risk to minimal with time degrade naturally



FIELD PIT SITE ASSESSMENT FORM

1 1 **13 11 1**

GENERAL	Meter: 90-37Z Location: EPNG Com B L5 3A Operator #: 6203 Operator Name: Production P/L District: Patec Coordinates: Letter: E Section 3Z Township: 31 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 8/16/94 Area: 04 Run: 63
SITE ASSESSMENT	NMOCD Zone: (From NMOCD State (2) State (2) Maps Inside (2) Indian Depth to Groundwater Less Than 50 Feet (20 points) (2) Greater Than 100 Ft (0 points) (3) 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) Horizontal Distance to Surface Water Body (2) NO (0 points) Less Than 200 Ft (20 points) (2) Greater Than 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Greater Than 1000 Ft (10 points) (2) Greater Than 1000 Ft (10 points) (3) Greater Than 1000 Ft (10 points) (4) Greater Than 1000 Ft (10 points) (4) Greater Than 1000 Ft (10
S	
REMARKS	Remarks: Redline Book-Inside Vulnerable Zone Tope- Inside
MA	Five pits, location drip pit is dry, will close one pit
RE	NTC-140111_
	**** 1

ORIGINAL PIT LOCATION	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 154° Footage from Wellhead 45′ b) Length: 36′ Depth: 6′
REMARKS	Remarks: Pictures @ 1100 (13-16, RollZ) Dump Truck
	Completed By: Signature Signature Signature Signature

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PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90372 Location: EPNG Com B LS 3A Coordinates: Letter: E Section 32 Township: 31 Range: 10 Or Latitude Longitude Date Started: 9/14/94 Run: 04 63
FIELD OBSERVATIONS	Sample Number(s): KD 258 Sample Depth: 7' Feet Final PID Reading 450 pm PID Reading Depth 7' Feet Yes No Groundwater Encountered \(\begin{array}{c c} \begin{array}{c c} KD 258 \\ Yes \end{array} \) Approximate Depth \(-7' \) Feet
RAITED	Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9/14/94 Pit Closed By: BET
	Remarks: Example p: to 7', Hit Synkshme took più Syngle, Signature of Specialist: My Syn (SP3181) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

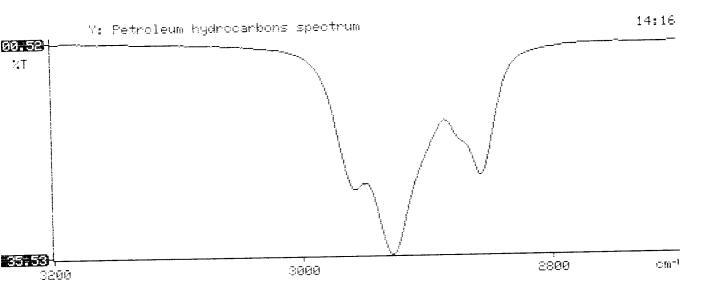
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID	La	b ID				
SAMPLE NUMBER:	KD 258		946	25				
MTR CODE SITE NAME:	9037		N	/A				
SAMPLE DATE TIME (Hrs): 9-14-94			127	20				
SAMPLED BY:		N/A			7			
DATE OF TPH EXT. ANAL.:	9-15-	94	9.	15.	94/			
ATE OF BTEX EXT. ANAL.:	9/15/	94	9/17	194				
TYPE DESCRIPTION:	vL		Black	mone	<u>.</u>			
REMARKS:								
		RESULT	5					ı
	PECULT	UNITS		QUA	LIFIERS		ATI Results	
PARAMETER	RESULT	ONTS	DF	α	M(g)	V(ml)		>
BENZENE	23.6	MG/KG					15	
TOLUENE	255	MG/KG					230	P
ETHYL BENZENE	38.7	MG/KG					28	
TOTAL XYLENES	462	MG/KG					330	4
TOTAL BTEX	779	MG/KG	0.0385		0.52	20	403	4
TPH (418.1)	25,600	MG/KG			.28	28	34000 Surrogate %	P
HEADSPACE PID	450	PPM			ing 184 Sitting for Sid		78 Dilution Factor	$\frac{1}{4}$
PERCENT SOLIDS	86.8	%			5		20	
The Surrogate Recovery was a Narrative: ATI Results without	t 106%	for this san	np All QA	A/QC	was accep		9/21/94	_

The Surrogate Recovery was at	106% for this samp All QA/QC was	. 1
Narrative: ATI Resulte without o), D(SO) = Diluka SOX	Analyzed 7/21/47
DF = Dilution Factor Used	D	10 h3/4U
Approved By:	Date:	- 10 ps - 1 s - 1

************************************* Test Method for Oil and Grease and Patroleum Hydrocarbons 桨 in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report ********************************** 4/09/15 14:15 Sample identification 246125 Initial mass of sample, g).280 Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 25648.268 Net absorbance of hydrocarbons (2930 cm-1) 0.448



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946125B
Method : C:\LABQUEST\METHODS\SOILS.MET

Sample ID : 946125 1/100 .52G/20ML Acquired : Sep 17, 1994 17:43:37 Printed : Sep 17, 1994 18:09:48

User STACY

SUN

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE a,a,a TFT TOLUENE ETHYLBENZENE M & P XYLENE O XYLENE BFB	10.733 13.067 15.600 19.650 19.833 20.350 20.917	846296 3244850 9191350 1283170 13123937 3276195 19592724	127951.77344 7303.77002 128167.09375 116407.63281 167589.01563 115447.89063 169985.04688	611.9853 6.\2 44369.2891 6616.1270 66.2 1005.8712 10.06 9389.4883 93.9 2613.5271 Z6.\ 10637.7451 106.\

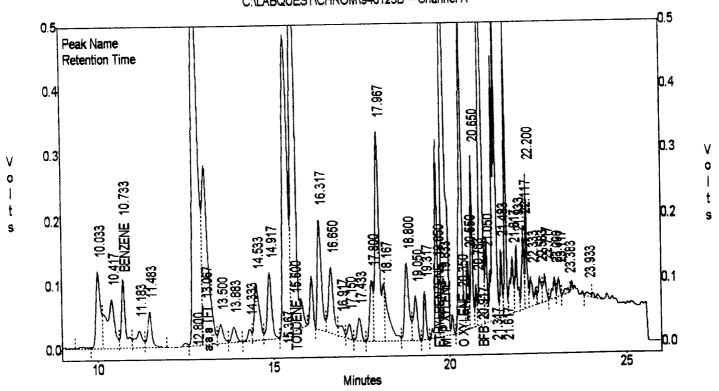
Totals:

50558524

75244.0313

July 19/94

C:\LABQUEST\CHROM\946125B - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

C:\LABQUEST\CHROM\946125B File C:\LABQUEST\METHODS\SOILS.MET Method

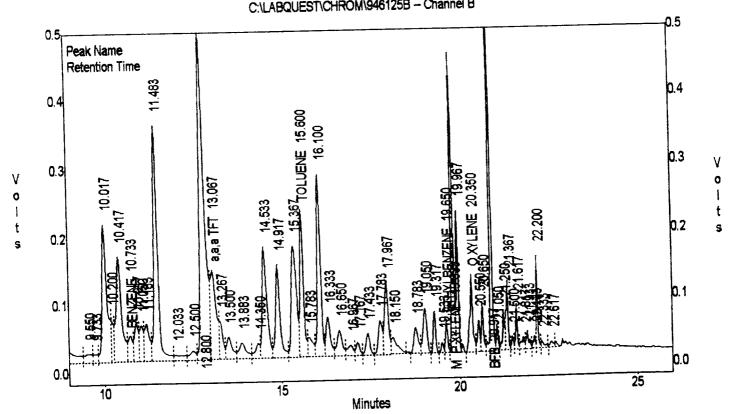
Sample ID : 946125 1/100 .52G/20ML : Sep 17, 1994 17:43:37 : Sep 17, 1994 18:09:53 Acquired **Printed**

STACY User

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE a,a,a TFT TOLUENE ETHYLBENZENE M & P XYLENE O XYLENE BFB	10.733 13.067 15.600 19.650 19.833 20.350 20.917	326274 1494638 1500670 199780 1768246 636414 2454877	17134.41016 1612.83142 16955.15430 15800.91699 16103.94629 15663.30664 18546.16797	1695.5852 92664.0078 7868.3428 1105.4957 9785.9600 3565.6011 13587.4814
Totals :		8380902		130272.4766

C:\LABQUEST\CHROM\946125B - Channel B





ATI I.D. 409367

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/16/94, 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





GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 409367

PROJECT # : 24324

PROJTC'	T NAME : PIT	CLOSURE				
SAMPLE		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	946123	NON-AQ	09/14/94	09/19/94	09/19/94	20
10	946124	NON-AQ	09/14/94	09/19/94	09/19/94	1
11 12	946125	NON-AQ	09/14/94	09/19/94	09/19/94	20
PARAME			UNITS	10	11	12
BENZEN			MG/KG	<0.5	<0.025	15
			MG/KG	<0.5	0.028	230 D(50)
TOLUEN			MG/KG	12	<0.025	28
	SENZENE XYLENES		MG/KG	170	0.046	330
SURROC BROMO!	GATE: FLUOROBENZENE	(%)		118*	: 102	78

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

D(50)=DILUTED 50X, ANALYZED 09/21/94



GENERAL CHEMISTRY RESULTS

: EL PASO NATURAL GAS CO. CLIENT

ATI I.D. : 409367

PROJECT # : 24324

DATE RECEIVED : 09/16/94

PROJECT NAME : PIT CLOSURE

DATE ANALYZED : 09/20/94

PARAMETER		UNITS	01	12
PETROLEUM HYDROCARBONS,	IR	MG/KG	2100	34000

PHASE II

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	·

RECORD OF SUBSURFACE EX **'RATION**

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(606) 326-2262 FAX (606) 326-2388

Elevation Borehole Location GWL Depth Logged By Drilled By Date/Time Completed 7/26

Project Name Project Number

Project Location

EPNG Pits

14509

Phase EPNG COM B 453A, 9037

Well Logged By Personnel On-Site

Contractors On-Site Client Personnel On-Site

Drilling Method

Air Monitoring Method

- 1 Robert None No recovery - 20 - 19.5 None No recovery - 21 23- 1.1 SAND, laht. brown, fine to med, danse, damp, poorly graded. - 25 2 25 2.0 to med, danse, damp,	Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air U BZ	Monitor nits: NC BH	ing ^U 5/ _g H	Drilling Conditions & Blow Counts
BOH-25.01				None	Cuttings coming up on auger are black. Auger cuttings change to brown color No recovery		11001				Drilling is hard, like rock. ent NK 7/26195 0745

Comments:

23'-25'Sample (SFK38) sent to lab (BTEX and TPH).

BH grouted to surface.

Geologist Signature Sauch Holly.



Phase II Dulling

(23-251)

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	SEX 38	947083		
MTR CODE SITE NAME:	90372	N/A		
SAMPLE DATE TIME (Hrs):	07-26-95	07:50		
SAMPLED BY:	N/A			
DATE OF TPH EXT. ANAL.:	07-27-95	07-27-95		
DATE OF BTEX EXT. ANAL.:	8-1-95	08-01-95		
TYPE DESCRIPTION:	VG			

REMARKS:	

RESULTS

	RESULT	UNITS	QUALIFIERS			
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG				
TOLUENE	L0.025	MG/KG	1			
ETHYL BENZENE	20.025	MG/KG	١			
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	20.10	MG/KG				
TPH (418.1)	30.9	MG/KG			1.99	28
HEADSPACE PID	0	PPM			i i	
PERCENT SOLIDS	96.1	%				100

PERCENT SOLIDS	96.1	<u> </u>		لك
	TPH is by EPA Met	hod 418.1 and BTEX is by EPA	Method 8020	
The Surrogate Recovery was at	101	% for this sample	All QA/QC was acceptable.	
Narrative:				
ATI Results	<u>attached</u>			
DF = Dilution Factor Used				

Approved By:

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

Perkin-Elmer Model 1600 FT-IR Analysis Report *****************

95/07/27 14:32

* Sample identification 947083

Initial mass of sample, g 1.990

* Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm 30.945

* Net absorbance of hydrocarbons (2930 cm-1)

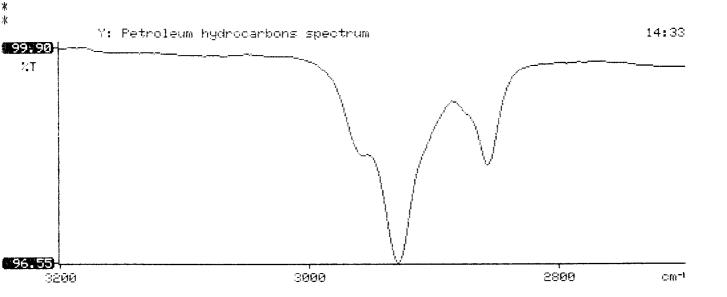
0.014

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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.

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

SAMPL	E		DAME			
ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947083	NON-AQ	07/26/95	08/01/95	08/01/95	1
02	947084	NON-AQ	07/26/95	08/01/95	08/01/95	1
03	947085	NON-AQ	07/26/95	08/01/95	08/01/95	1
PARAMI			UNITS	01	02	03
BENZEN			MG/KG	<0.025	<0.025	<0.025
TOLUEN	1E		MG/KG	<0.025	<0.025	<0.025
ETHYLE	BENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES		MG/KG	<0.025	0.027	<0.025
SURROG	GATE:					
BROMOF	LUOROBENZENE (%	;)		101	99	104