DEL 2 I WIN

STATE COM H#9 FT Meter/Line ID - 87240

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Legals - Twn: 30.

SITE DETAILS

Sec: 16

Unit: B

Land Type: 1 - State

NMOCD Hazard Ranking: 40 Operator: AMOCO PRODUCTION COMPANY

Rng: 09

Pit Closure Date: 05/10/94

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 minimal risk to with time degrade in naturally

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 87240 Location: STATE COM # #9 FT Operator #: 0203 Operator Name: Amoco P/L District: BloomField Coordinates: Letter: B Section 16 Township: 30 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 4.22.94 Area: 10 Run: 33
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outsid
REMARKS	Remarks: THEEE PITS ON LOCATION. WILL CLOSE TWO OF THEM.
REM	DIG É HAUL

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 87240 Location: State Com # #9 F7 Coordinates: Letter: B Section 16 Township: 30 Range: 9 Or Latitude Longitude Date Started: 5-10-94 Area: 10 Run: 33
IE , OBSERVATIONS	Sample Number(s): KD 49 Sample Depth: 12' Feet Final PID Reading 177 ppm PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
SURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation (3)
CLOS	Soil Disposition: Envirotech (1) (3) Tierra Other Facility (2) Name:
	Pit Closure Date: 5-10-94 Pit Closed By: BET
RKS	Remarks: Excavation Depth went to 12'; At this Depth Took PID Reading, Closel Pit
-	
	Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

Field ID Lab ID SAMPLE NUMBER: NUMBER: 945108 MTR CODE | SITE NAME: 87240 N/A

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:
DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

REMARKS:

5-10-94	0915
	N/A
5112-194	5/12/94
5/17/94	5/18/94
٧C	Brown Sand

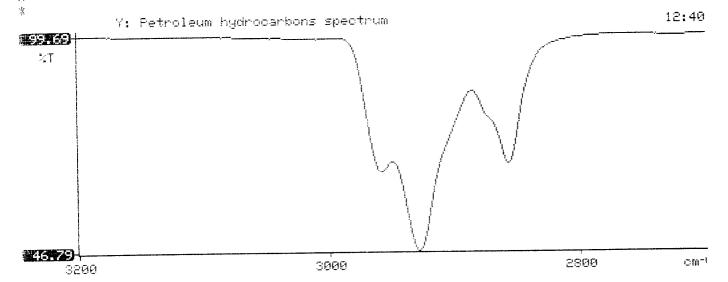
	RE	Sl	JL	TS

PARAMETER RESULT UNITS QUALIFIERS							
PARAMETER	NEGOLI		DF	Q	M(g)	V(ml)	
BENZENE	20.025	MG/KG	1				
TOLUENE	0.026	MG/KG	1				
ETHYL BENZENE	0.10	MG/KG					
TOTAL XYLENES	1.8	MG/KG					
TOTALEBIEN	2.0	MG/KG		ļ			
TPH (4188)	2560	MG/KG			2.10	28	
HEADSPACE PID		PPM					
PERCENTSORIO	90.2	%					

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

The Surrogate Recovery was at	43 % for this sample All QA/QC was acceptable.	
	had. Surrogate recovery was outside	
BTI OC limit	5 due to matrix in terference.	_
DF = Dilution Factor Used		
Approved By:	Date:	

Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report *********************** 94/05/12 12:40 * Sample identification 945108 Initial mass of sample, g Volume of sample after extraction, ml 28,000 Petroleum hydrocarbons, ppm 2558.468 Net absorbance of hydrocarbons (2930 cm-1) 0,328 2%





ATI I.D. 405359

May 25, 1994

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

Project Name/Number: PIT CLOSURE 24324

John Lambdin Attention:

On 05/13/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. 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.

EPA Method 418.1 analysis was added for sample 945125 on 05/17/94.

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

Letítia Krakowski, Ph.D.

Project Manager

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

MR: jd

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405359

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	NON-AQ	05/10/94	05/17/94	05/18/94	1
02 945109	NON-AQ	05/10/94	05/17/94	05/19/94	100
03 945110	NON-AQ	05/10/94	05/17/94	05/18/94	1
PARAMETER		UNITS	01	02	03
BENZENE		MG/KG	<0.025	<2.5	<0.025
TOLUENE		MG/KG	0.026	11	<0.025
ETHYLBENZENE		MG/KG		2.9	<0.025
TOTAL XYLENES		MG/KG	1.8	34	<0.025
SURROGATE:					
BROMOFLUOROBENZENE (%)			43*	106	91

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

PHASE II

RECORD OF SUBSURFACE EXPLORATION PHILIP ENVIRONMENTAL 4000 Monroe Road Project Name Farmington, New Mexico 87401 Project Number (605) 326-2262 FAX (606) 326-2388 **Project Location** Well Logged By Elevation Personnel On-Site **Borehole Location** Contractors On-Site **GWL** Depth Client Personnel On-Site Logged By Drilled By **Drilling Method** Date/Time Started Air Monitoring Method Date/Time Completed Depth **Drilling Conditions** uscs Lithology Air Monitoring Sample Description Type & Units: NDUS/H Depth Sample & Blow Counts Change Classification System: USCS Symbol Number Interval Recovery (Feet) вн (feet) (inches) Backfill to 12 0 5 SAND, lightdown, med to coarse, moist, very loose (to 17!.) 0 -1225 10 4 6 BOH-15 AK 6/14/95 1011 15 15-17 1 20 25

40		<u> </u>			<u> </u>				
Comments:	15'-17' -+0 S	iample (MC55)	sent to	lah	BTEX	(1 T P	'H) BH	groute
			Geol	ogist Signatur	•				



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

phasett

SAMPLE IDENTIFICATION

TPH (418.1) HEADSPACE PID PPM PERCENT SOLIDS 87.6 % TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020		SAMI EE II					
MTR CODE SITE NAME: SAMPLE DATE TIME (Hrs): SAMPLED BY: SAMPLED		Field ID)		Lab ID		
MTR CODE SITE NAME: \$7240 N/A SAMPLE DATE TIME (Hrs): \$225 225 SAMPLED BY: N/A 1225 DATE OF TPH EXT. ANAL.: \$1595 \$2-15.95 DATE OF BIEX EXT. ANAL.: \$1695 \$2505 TYPE DESCRIPTION: \$1695 \$2505 N/A \$1695 \$2505 PARAMETER RESULT \$2505 RESULTS \$2505 \$2505 PARAMETER RESULT UNITS QUALIFIERS DF Q \$109 \$1005 BENZENE \$20.025 \$2005 \$1005 TOLUENE \$20.025 \$2006 \$1005 TOTAL XYLENES \$20.025 \$2006 \$1006 TOTAL BTEX \$20.025 \$2006 \$2006 TOTAL BTEX \$20.10 \$2006 \$2006 TPH (418.1) \$75.9 \$2006 \$2006 PPM \$2007 \$2006 \$2006 PERCENT SOLIDS \$2006 \$2006 \$2006	SAMPLE NUMBER:	cmcs	.5	946	901		
SAMPLE DATE TIME (Hrs): SAMPLED BY:	MTR CODE SITE NAME:	87240			N/A		
DATE OF TPH EXT. ANAL.: DATE OF BTEX EXT. ANAL.: TYPE DESCRIPTION: REMARKS: RESULTS RESULTS RESULTS RESULTS RESULTS RESULTS OUALIFIERS DF Q M(g) V(ml) BENZENE		6-14-9	5	127	<u> </u>		
DATE OF BTEX EXT. ANAL.: TYPE DESCRIPTION:	SAMPLED BY:	SAMPLED BT.					
TYPE DESCRIPTION:	DATE OF TPH EXT. ANAL.:						
RESULTS		4/14	95			L 0 b 4	
PARAMETER RESULT UNITS QUALIFIERS DF Q M(g) V(ml) BENZENE 20.025 MG/KG 1 TOLUENE 20.025 MG/KG 1 ETHYL BENZENE 40.025 MG/KG 1 TOTAL XYLENES 40.025 MG/KG 1 TOTAL BTEX 40.025 MG/KG 1 TPH (418.1) 75.9 MG/KG 2.05 28 HEADSPACE PID 1 PPM 1 20.00 20.00 PERCENT SOLIDS 87.6 % 20.00 20.00 20.00	TYPE DESCRIPTION:	V&		LVANT DYON	en Jond s	Class	
PARAMETER RESULT UNITS QUALIFIERS DF Q M(g) V(ml) BENZENE 20.025 MG/KG 1 TOTUENE 20.025 MG/KG 1 ETHYL BENZENE 20.025 MG/KG 1 TOTAL XYLENES 40.025 MG/KG) TOTAL BTEX 40.10 MG/KG 2.05 28 HEADSPACE PID 1 PPM 2.05 28 PERCENT SOLIDS 87.6 % All OA/OC was acceptable	REMARKS:						
DF Q M(g) V(ml)		R	ESULTS				
DF Q M(g) V(ml)	DADAMETED	RESULT	UNITS		QUALIF	IERS	4
TOLUENE	PARAMETER			DF	Q	M(g)	V(ml)
ETHYL BENZENE	BENZENE	20.025	MG/KG				
TOTAL XYLENES	TOLUENE	20.025	MG/KG	1			
TOTAL BTEX CO.10 MG/KG TPH (418.1) 75.9 MG/KG PPM PERCENT SOLIDS 87.6 % TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 **Control of All OA/OC was acceptable.**	ETHYL BENZENE	١٥.0٦٤	MG/KG				
TPH (418.1) 75.9 MG/KG HEADSPACE PID PERCENT SOLIDS 87.6 - TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020	TOTAL XYLENES	40.0 2 5	MG/KG)			
PERCENT SOLIDS 87.6 - TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020		۷٥،١٥	MG/KG				
PERCENT SOLIDS 87.6 - TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020	TPH (418.1)	75.9	MG/KG			2,05	28
PERCENT SOLIDS 87.6 % TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020		1	PPM		ļ		
TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020							
Varrative:	The Surrogate Recovery was at	TPH is by EPA Method				ptable.	

95/06/15 14:29

*

Sample identification 946901

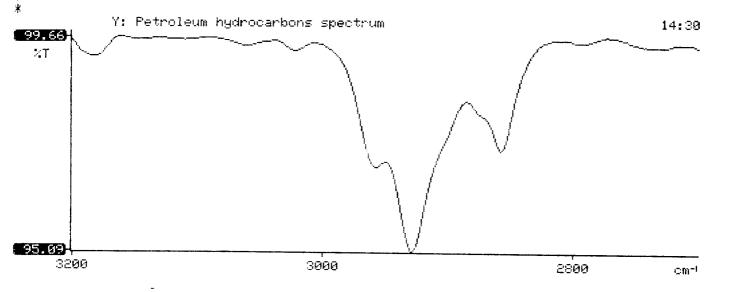
* Initial mass of sample, g 2.050

Volume of sample after extraction, ml 28.000

Fetroleum hydrocarbons, ppm

75.888

Net absorbance of hydrocarbons (2930 cm-1) 0.020





ATI I.D. 506376

June 21, 1995

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

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On **06/16/95**, 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.

& MCNell

Kimberly D. McNeill Project Manager

MR: jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

JIN 1995
Lab
Frances

GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506376

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
10	946900		NON-AQ	06/14/95	06/16/95	06/16/95	1
11	946901		NON-AQ	06/14/95	06/16/95	06/16/95	1
12	946902		NON-AQ	06/14/95	06/16/95	06/16/95	1
PARAME	TER			UNITS	10	11	12
BENZEN	E			MG/KG	<0.025	<0.025	<0.025
TOLUEN	ΙE			MG/KG	<0.025	<0.025	<0.025
ETHYLE	BENZENE			MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES			MG/KG	<0.025	<0.025	0.26
SURROG	ATE:						
BROMOR	LUOROBENZENE	ር (%)			103	97	137*

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