EL-PASOFIELD SERVICES PRODUCTION PIT CLOSURE

DEC 2 1 1998

NORDHAUS #7 Meter/Line ID - 87037



SITE DETAILS

Unit: B

Legals - Twn: 25 Rng: 07

Sec: 20

NMOCD Hazard Ranking: 30 Land Type: 2 - Federal

Operator: DUGAN PRODUCTION CORP Pit Closure Date: 07/19/94

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
- 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 with minimal environment. naturally degrade in time risk to the

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 87037 Location: NORD HAUS #7 Operator #: 1862 Operator Name: Dugan Pood. P/L District: BAUMRO Coordinates: Letter: B Section 20 Township: 25 Range: 7 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6.23.94 Area: 07 Run: 41						
	NMOCD Zone: Land Type: BLM						
	Less Than 50 Feet (20 points) 🛛 (1) 50 Ft to 99 Ft (10 points) 🔲 (2) Greater Than 100 Ft (0 points) 🗌 (3)						
SITE 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)						
	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 Muucht (ANWA) (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: POINTS						
KS	Remarks: ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN PALLICHE						
 REMARKS	CANYON EAST OF THE WASH. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.						
RE	Die : Have						

ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North 10° Footage from Wellhead 75 b) Length : 13′ Width : 13′ Depth : 2′	<u>-</u>
REMARKS	Remarks: TOOK PICTURES AT 11:53 A.M. END DUMP Completed By:	
	Signature Date	-

PHASE I EXCAVATION

FI:) PIT REMEDIATION/CLOS' 'E FORM

GENERAL	C	eter: \$7037 Location: NORDHAUS +7 oordinates: Letter: B Section 20 Township: 25 Range: _7 Or Latitude Longitude ate Started: 7-19-94 Area: 07 Run: 41
GIET OBSERVATIONS	F	Sample Number(s): KP 137 Sample Depth: 12' Feet Final PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
	URE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 7-19-99 Pit Closed By: B.E.T.
	REMARKS	Remarks: Some line markels. Started Remediating to 12' Soil Turned gray with A Smell At 12' Soil Still 1) 11 0 111
. •		Signature of Specialist: Helly Politie (SP3191) 04/07

-2-



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 137	945709
MTR CODE SITE NAME:	87037	N/A
SAMPLE DATE TIME (Hrs):	7-19-94	/o3D
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	7/21/94	7/21/94
DATE OF BTEX EXT. ANAL.:	7/22/94	7/23/94
TYPE DESCRIPTION:	V C	Brown Fine Sand

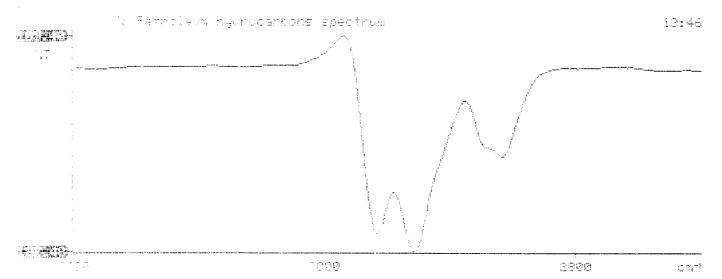
REMARKS:	
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RESULTS

PARAMETER	RESULT	RESULT UNITS		QUALIFIERS			
. ,			DF	Q	M(g)	V(ml)	
BENZENE	L0.5	MG/KG	20				
TOLUENE	20.5	MG/KG	20		•		
ETHYL BENZENE	1.6	MG/KG	20				
TOTAL XYLENES	26	MG/KG	20				
TOTAL BTEX	29	MG/KG					
TPH (418.1)	440	MG/KG			218	スを	
HEADSPACE PID	193	PPM					
PERCENT SOLIDS	91.80 ht	19/4y %					

	- TPH is by EF	PA Method 418.1 and BTEX is	by EPA Method 8020 —		
The Surrogate Recovery	was at\(_\)	5 % for this s	sample All QA/	QC was acceptable	в.
Narrative:	nults att	ached Si	mogate	recovery.	was outsi
ATIQ	C limits	due to	matrix	in terfor	ince.
DF = Dilution Factor Use	ed			V	
Approved By:	<u> </u>		Date: _	8/12/94	

Test Met.of for Stress with the stress of th





ATI I.D. 407395

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 07/22/94, 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.

1. Keakowshi

Project Manager

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

MR:jt-

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407395

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

PROJEC	JI NAME	. FIT CHOD	UICE				
SAMPLE	 E	T D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	945708		NON-AQ	07/19/94	07/22/94	07/23/94	1
01 02	945709		NON-AQ	07/19/94	07/22/94	07/23/94	20
03	945710		NON-AQ	07/19/94	07/22/94	07/23/94	20
PARAM	EUEB			UNITS	01	02	03
				MG/KG	<0.025	<0.5	<0.5
BENZE				MG/KG	<0.025	<0.5	<0.5
TOLUE				, MG/KG	<0.025	1.6	1.1
	BENZENE			, MG/KG	<0.025	26	12
TOTAL	. XYLENES	}		MG/ NG	(0.023		
SURRO	GATE:						0.1
BROMO	FLUOROBE	ENZENE (%)			93	160*	81

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

PHASE II

RECORD OF SUBSURFACE EXPLORATION

BH-1 Borehole # Well # Page

Burlington Environmental Inc.

4000 Monroe Road

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

Elevation Borehole Location Latter B- San-725-87 GWL Depth J.F. LaBarbera Logged By K. Padilla

Date/Time Started Date/Time Completed

Drilled By

EPNG PITS Project Name 6000.77 14509 Phase Project Number nlordhaus #7 **Project Location** J.F. LaBarbera

Well Logged By Personnel On-Site

K. Padilla, F. Rivera, D. Charlie

Contractors On-Site Client Personnel On-Site

4 1/4 ID HSA Drilling Method

Air Monitoring Method

PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	1	r Monitori Inits: ppn BH	1	Drilling Conditions & Blow Counts
5	,			Fill						
15	1	15= 16.3:	15	Gray, V. lease, fr., SAND, some clay, damp, odor, some visual impact.	5 C		0	30	/5 53 587	49 3 2
20	ã	15- 26.5	7	Brown, lasse, fr, SAND, some silt, damp, oder.	sm	-	0-1	46	7038 70	: a92
25	; 3	25- 45-2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gray, v. staff, CLAY, dry slader, non plastic.	CL		٥	155	2235	693
30				AA, Lt. Gray				1	1709 301	
35				At 35.25 - Gray, Kard, v for to for, SANIBSTONE, Bry.			*	153	92	Hood drilling
41	ه ک	45-		Astusal-TOB of 45'	prob	/3	3.3	5-6		/3

Comments:

to leb for BTEX/TPH analys

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

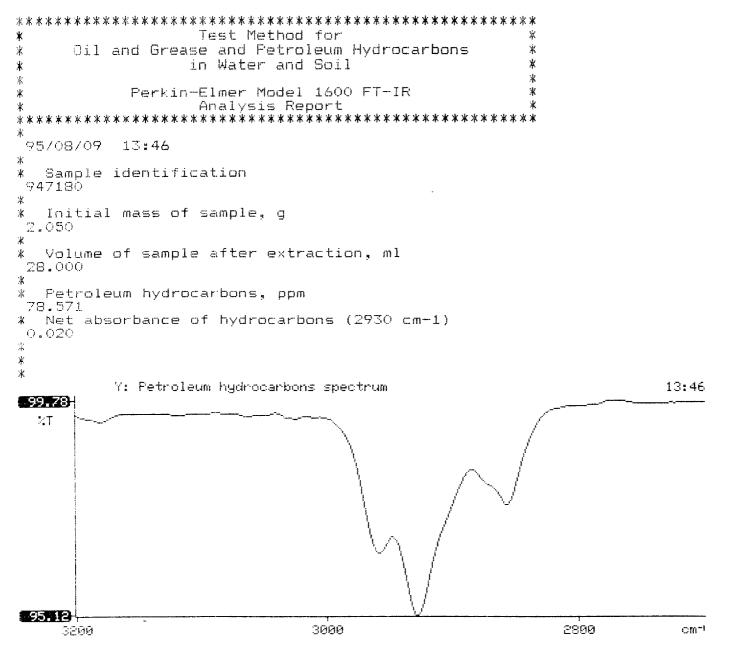
	Field ID	Lab ID
SAMPLE NUMBER:	JFL49	947180
MTR CODE SITE NAME:	87037	Nordhaus #7
SAMPLE DATE TIME (Hrs):	08-08-95	10:02
PROJECT:	Phase It Drilling	
	8/9/95	8-9-95
DATE OF TPH EXT. ANAL.:	8-12-95	8-14-95
DATE OF BTEX EXT. ANAL.:	V/	grey sand + chay
TYPE DESCRIPTION:	YS	

Field Remarks: (35-35.25')

RESULTS

	RESULT	UNITS	QUALIFIERS				
PARAMETER	NESULT		DF	Q	M(g)	V(ml)	
BENZENE	20.025	MG/KG	1				
TOLUENE	20.025	MG/KG	1				
ETHYL BENZENE	L0.025	MG/KG	1 1				
TOTAL XYLENES	20.025	MG/KG					
TOTAL BTEX	60.10	MG/KG					
трн (418.1)	PLB8/28/95 79 78.6	MG/KG			2.05	28	
HEADSPACE PID	92	PPM					
PERCENT SOLIDS	94.6	% 4 418.1 and BTEX is by 8					

PERCENT SOLIDS	94.6	%			للـــــــــــــــــــــــــــــــــــــ
The Surrogate Recovery was at	100	418.1 and BTEX is by EPA for this sample		was acceptable.	
DF = Dilution Factor Used	D		Data	8/28/65	
, , , , , , , , , , , , , , , , , , ,	A		Date:		-





ATI I.D. 508367

August 17, 1995

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

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

Attention: John Lambdin

On **08/11/95**, 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.

Komstell

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.: 508367

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I, II & III

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
16 947180	NON-AQ	08/08/95	08/12/95	08/14/95	1
17 947181	NON-AQ	08/08/95	08/12/95	08/14/95	1
PARAMETER		UNITS	16	17	
BENZENE		MG/KG	<0.025	<0.025	
TOLUENE		MG/KG	<0.025	<0.025	
ETHYLBENZENE		MG/KG	<0.025	<0.025	
TOTAL XYLENES		MG/KG	<0.025	<0.025	
SURROGATE:					
BROMOFLUOROBENZENE (%)			100	102	