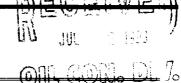
EL PASO EJELD SERVICES L'ANDRODUCTION PIT CLOSURE

DEC 231

AZTEC FEDERAL #1 Meter/Line ID - 73946



OIL GOW. DL.

SITE DETAILS

Legals - Twn: 30 Rng: 11

NMOCD Hazard Ranking: 40 Operator: MERIDIAN OIL INC Sec: 24 Unit: J

Land Type: 2 - Federal 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 naturally degrade in time with minimal risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

##**###**##₹

Meter: 73-946 Location: Aztec-Federal No. 7 Operator #: 1997 Operator Name: Meridian P/L District: # Coordinates: Letter: 5 Seption 747	
Operator #: 1987 Operator Name: Meridian P/L District: # Coordinates: Letter: Section 24 Township: 30 Range: 11 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Othe Site Assessment Date: 4/15/94 Area: 04 Run: 21	
NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Land Type: BLM State (1) Fee Indian Indian	(1) (2) (3)
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: Is it less than 1000 ft from wells, springs, or other sources fresh water extraction?, or; Is it less than 200 ft from a domestic water source? (1) YES (20 points) (2) NO (of private (0 points)
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 Bloomfield (20)	
Irrigation Canals,Ditches,Lakes,Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo	eeks, Pits Only)
TOTAL HAZARD RANKING SCORE: 40 POINTS	
Remarks: Redline Book-Inside Vulnerable Zone Topo- Inside Two pits, location drip pit is dry. Will close on	
DIGA	

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 73946 Location: AZTec Federal No.1 Coordinates: Letter: J Section 24 Township: 30 Range: 11 Or Latitude Longitude Longitude Longitude Longitude 21 Date Started: 9-13-44 Pa-4-94 Run: 04 21
FIELD OBSERVATIONS	Sample Number(s): #233 Sample Depth: Feet Final PID Reading 255
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: Pit Closure Date: Approx. Cubic Yards Approx. Cubic Yards Tierra Tierra Pit Closed By: Pit Cl
REMARKS	Remarks: Some Line marker. Started Remodinting to 12' Soil is Dark gray with a smell. Pit has A Lot of Roots from Trees in it. At 12' Soil Still gray with A Smell. Closed Pit.
	Signature of Specialist: Kly Palille



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 233	946122
MTR CODE SITE NAME:	73946	N/A
SAMPLE DATE TIME (Hrs):	9-14-94	0918
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	9-15-94	9-15-9-
DATE OF BTEX EXT. ANAL.:	9-19-94	9-19-94
TYPE DESCRIPTION:	VC	Ralia

REMARKS:		

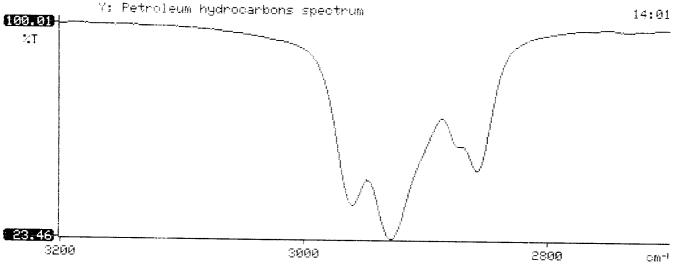
RESULTS

PARAMETER	RESULT	RESULT UNITS		QUALIFIERS			
[1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2			DF	Q	M(g)	V(ml)	
BENZENE	9.0	MG/KG	20				
TOLUENE	180	MG/KG	20				
ETHYL BENZENE	29	MG/KG	20				
TOTAL XYLENES	340	MG/KG	20				
TOTAL BTEX	<u>559</u>	MG/KG					
TPH (418.1)	4610	MG/KG			2.19	28	
HEADSPACE PID	255	PPM					
PERCENT SOLIDS	88.6	%					

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

The Surrogate Recovery was at 109 Narrative:	_% for this sample All QA/QC was acceptable.
ATI Roselle attached.	
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 ****************** 94/09/15 14:00 Sample identification 5946122 946122 7018 Initial mass of sample, g Volume of sample after extraction, ml 28,000 Petroleum hydrocarbons, ppm 4609.266 Net absorbance of hydrocarbons (2930 cm-1) 0.626 *





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

PROJECT NAME : PIT CLOSURE

SAMPL	F		DATE	DATE	DATE	DIL.
ID. #		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	946114	NON-AQ	09/13/94	09/19/94	09/19/94	20
80	946115	NON-AQ	09/13/94	09/19/94	09/19/94	20
09	946122	QA-NON	09/14/94	09/19/94	09/19/94	20
PARAM	ETER		UNITS	07	08	09
BENZE	NE		MG/KG	<0.5	<0.5	9.0
TOLUE	ENE		MG/KG	9.5	12	180
ETHYL	BENZENE		MG/KG	6.8	3.5	29
TOTAL	XYLENES		MG/KG	110	41	340
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)		151*	220*	109

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

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(506) 326-2262 FAX (606) 326-2388

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

Project Name Project Number **EPNG Pits**

14509 Project Location Hoter Fordera

Phase

Well Logged By

Personnel On-Site

Contractors On-Site Client Personnel On-Site

Drilling Method

Air Monitoring Method

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Ai U BZ	r Monito Inits: NE BH	rino OUSZH	Drilling Conditions & Blow Counts
10	3	20- 21.5 25- 27	四年 5月	Backfill Backfill To Z SAND, tan armst, fine sand, trace silt, dense, damp. SAND, grey, fine to med. dense, damp, poorly graded. STLT, grey, very stiff, dry.		1	BZ			1045 Slow drilling, like rock

Comments:

sample (SEK 45) sent to

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

Phase I Drillig Aztec Federal No. 1 (30-31.5')

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

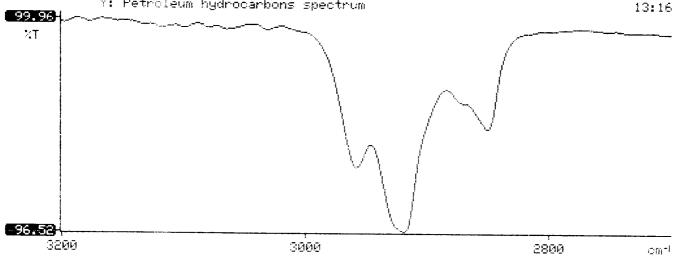
SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	SEK 45	947108
MTR CODE SITE NAME:	73946	N/A
SAMPLE DATE TIME (Hrs):	07/31/95	11:35
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	8-1-95	8-1-95
DATE OF BTEX EXT. ANAL.:	8-3-95	8-4-95
TYPE DESCRIPTION:	V6	froysand + day
_		
REMARKS:		
	RESULT	S

PARAMETER	RESULT	UNITS		QUALIF	TERS	
			DF	Q	्रो(g)	V(ml)
BENZENE	20.025	MG/KG	1			
TOLUENE	0.029	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	1			
TOTAL XYLENES	0.059	MG/KG				
TOTAL BTEX	0.088	MG/KG				
TPH (418.1)	34.3	MG/KG			1.99	28
HEADSPACE PID	34	PPM				
PERCENT SOLIDS	92.5	%				

	TITLE BY CIA WOULDS TO. I BIN DIEA IS BY CIA	Method 5020 ··	
The Surrogate Recovery was at	92 % for this sample	All QA/QC was acceptable.	
Narrative: ATI Results	attached		
DF = Dilution Factor Used			

```
********************
                Test Method for
*
     Oil and Grease and Fetroleum Hydrocarbons
                                              *
               in Water and Soil
                                              *
          Perkin-Elmer Model 1600 FT-IR
                Analysis Report
****************
95/08/01 13:16
*
  Sample identification
947108
  Initial mass of sample, g
  Volume of sample after extraction, ml
28.000
  Petroleum hydrocarbons, ppm
34.345
* Net absorbance of hydrocarbons (2930 cm-1)
0.014
*
*
        Y: Petroleum hydrocarbons spectrum
```





ATI I.D. 508322

August 8, 1995

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

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

Attention: John Lambdin

On 08/03/95, 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.

Suchall

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 ATI I.D.: 508322

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

		•				
SAMPI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947108	NON-AQ	07/31/95	08/03/95	08/04/95	1
02	947109	NON-AQ	07/31/95	08/03/95	08/04/95	1
03	947110	NON-AQ	07/31/95	08/03/95	08/04/95	1
PARAN	METER		UNITS	01	02	03
BENZE	ENE		MG/KG	<0.025	<0.025	<0.025
TOLUE	ENE		MG/KG	0.029	<0.025	<0.025
ETHYI	LBENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	L XYLENES		MG/KG	0.059	<0.025	<0.025
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)	,		92	94	92