DEC 2 1 1998

MARRON #94 Meter/Line ID - 90874



SITE DETAILS

Sec: 23

Unit: F

Land Type: 2 - Federal

Pit Closure Date: 06/07/94

Legals - Twn: 27 Rng: 08

NMOCD Hazard Ranking: 40

Operator: R & G DRILLING COMPANY

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.

J:\18954\rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 90874 Location: Marcon # 94 Operator #: 7335 Operator Name: R&G Dolog P/L District: Blanco Coordinates: Letter: E Section 3 Township: 2 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/24/94
SITE ASSESSMENT	NMOCD Zone: Canal Type: BLM (1)
REMARKS	Remarks: Redling & Vuln-Inside
REM	DIGAHAUL

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

11	Meter: <u>90874</u> Location: <u>Marron</u> #94 (Cheera)
GENERAL	Coordinates: Letter: \(\overline{\subseteq} \) Section \(23 \) Township: \(27 \) Range: \(8 \) Or Latitude \(\to \) Longitude \(\to \) Date Started: \(\lambda \lambda \lambda \lambda \lambda \) Area: \(\subseteq 3 \) Run: \(\subseteq 3 \)
FIELD OBSERVATIONS	Sample Number(s): 19
	Remediation Method :
JRE	Excavation Onsite Bioremediation Backfill Pit Without Excavation (1) Approx. Cubic Yards 120 (2) (3)
CLOSURE	
S	
REMARKS	10/0 ft hit shale rock, continued Remediating, coundn't Finish will continue tomorrow. Started Remediating took UC sample PID Reading is 657 ppm at 78° closed pit
	Signature of Specialist: James of Tancon (SP3191)



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	JP 19	945374
MTR CODE SITE NAME:	90874	N/A
SAMPLE DATE TIME (Hrs):	4-7-94	0910
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	(0)0194	6/10/94
DATE OF BTEX EXT. ANAL.:	6114194	6/14/94
TYPE DESCRIPTION:	VC	Coaise Brown Sand

REMARKS:		

RESULTS

PARAMETER	RESULT UNITS		QUALIFIERS				
			DF	Q	M(g)	V(ml)	
BENZENE	L 0.50	MG/KG	20				
TOLUENE	40.50	MG/KG	20				
ETHYL BENZENE	20.50	MG/KG	20				
TOTAL XYLENES	75	MG/KG	20				
TOTAL BTEX	77	MG/KG					
TPH (418.1)	663	MG/KG			2.00	28	
HEADSPACE PID	697	PPM	Page 1	i grafini Grafini		er er State	
PERCENT SOLIDS	89.3	%					

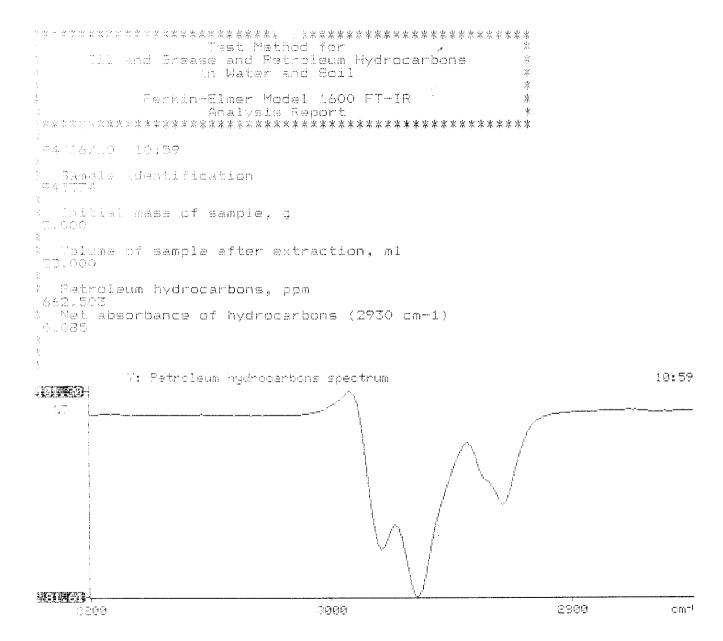
The Surrogate Recovery was at 98 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By:

Date: 7/17/94





ATI I.D. 406351

June 21, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/14/94, 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:jd

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 406351

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945374	NON-AQ	06/07/94	06/14/94	06/14/94	20
02	945375	NON-AQ	06/07/94	06/14/94	06/14/94	1
03	945376	NON-AQ	06/07/94	06/14/94	06/14/94	1
PARAME	TER		UNITS	01	02	03
BENZEN	IE		MG/KG	<0.50	<0.025	<0.025
TOLUEN	ΙE		MG/KG	<0.50	<0.025	<0.025
ETHYLE	BENZENE		MG/KG	<0.50	<0.025	<0.025
TOTAL	XYLENES		MG/KG	75	<0.025	0.086
SURRO	SATE:					
BROMO	FLUOROBENZENE	(%)		98	101	108

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

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

Elevation

Borehole Location

GWL Depth

Logged By

CM CHANCE

Drilled By

Date/Time Started

Date/Time Completed

Borehole #	BH-1	_
Well #		
Page) of)	

Project Name EPNG PITS

Project Number 14509 Phase 6000 77

Project Location Marron # 94 90674

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA

Air Monitoring Method PID, CGI

	C	Camala	Sample Type &	Semple Description	uscs	Depth Lithology	Aic	Monitor	ing	Drilling Conditions
Depth (Feet)	Sample Number	Sample Interval	Recovery	Classification System: USCS	Symbol	Change	Unite		<u>s</u>	& Blow Counts
0			(inches)	0		(feet)	6Z	вн	HS	
				Back F:11 +0 101						
										:
5										
-										
 										
10										
 -			,	la il alla F 11						
15	1	15-17	6	BrsilingSAND, VF sund, dense,			a	140	90	-hard drilling
 				arg					69	
										-hard drilling
	7	30.27	3''	AA						/
	٠						O	93	a	0957
-									'/	
 -			711	Br silon SAND, UF-Frand, dense,						
25	د	JR-52	,	Br silty SAND, Vf-Fsand, dense, sl moist			0	20	10	-1015
 				TOB 26					78	
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35										
1 -					1					
40										
	1	<u> </u>			<u> </u>	<u> </u>	<u> </u>			

1		
Comments:	CMC 92(25-26) sent to lab (B	TEX. TAH). BH growted to surface
	Ge	ologist Signature Change
6/15/95\DRII		



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	8/22 Field ID	Lab ID
SAMPLE NUMBER:	947 CMC92	947338
MTR CODE SITE NAME:	90874	Marron #94
SAMPLE DATE TIME (Hrs):	08-25-95	1015
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. : ANAL.:	8/28/95	
DATE OF BTEX EXT. ANAL.:	8/28/95	8/31/95
TYPE DESCRIPTION:	VG	light brown fine Sand

Field Remarks:	
Field Hemarks:	

RESULTS

PARAMETER	RESULT	RESULT UNITS		QUALIFIERS					
7,112,111	4.5	1914 - J. J.	DF	Q	M(g)	V(ml)			
BENZENE	4.5	MG/KG							
TOLUENE	4.5	MG/KG							
ETHYL BENZENE	4.5	MG/KG							
TOTAL XYLENES	4 1.5	MG/KG							
TOTAL BTEX	Z3.0	MG/KG							
TPH (418.1)	P895 70.5	MG/KG			2.28	28			
HEADSPACE PID	28	PPM	. d						
PERCENT SOLIDS	94.6	%							

The Surrogate Recovery was at 94% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By:

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*******************
                Test Method for
     Oil and Grease and Petroleum Hydrocarbons
*
               in Water and Soil
          Perkin-Elmer Model 1600 FT-IR
95/08/28 14:50
  Sample identification
947338
Initial mass of sample, g
2.280
  Volume of sample after extraction, ml
*
28.000
  Petroleum hydrocarbons, ppm
70.535
 Net absorbance of hydrocarbons (2930 cm-1)
0.020
×
*
米
        Y: Petroleum hydrocarbons spectrum
100.99
 %T
```

3000

3200

14:50

 $\odot m^{-1}$

2800

BTEX SOIL SAMPLE WORKSHEET

File		:	947338	Date Printed	:	9/1/95	
Soil Mass	(g)	:	5.15	Multiplier (L/g)	:	0.00097	
Extraction vol.	(mL)	:	20	DF (Analytical)	:	200	
Shot Volume	(uL)	:	100	DF (Report)	:	0.19417	
							Det. Limit
Benzene	(ug/L)	:	0.00	Benzene (mg/Kg):	0.000	0.485
Toluene	(ug/L)	:	0.00	Toluene (mg/Kg):	0.000	0.485
Ethylbenzene	(ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000	0.485
p & m-xylene	(ug/L)	:	0.00	p & m-xylene (mg/Kg)):	0.000	0.971
o-xylene	(ug/L)	:	0.00	o-xylene (mg/Kg)):	0.000	0.485
				Total xylenes (mg/Kg	ı):	0.000	1.456

Total BTEX (mg/Kg):

0.000

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\083195-1.007

Method: C:\LABQUEST\METHODS\9001.MET

Sample ID : 947338,5.15G,100U Acquired : Aug 31, 1995 21:12:13 Printed : Sep 01, 1995 07:15:49

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.257	0	0.0000
a,a,a TFT	4.887	2333203	98.0375
TOLUENE	6.490	0	0.0000
ETHYLBENZENE	10.160	0	0.0000
M & P XYLENE	10.473	0	0.0000
O XYLENE	11.567	0	0.0000
BFB	13.210	32996300	93.9404

C:\LABQUEST\CHROM001\083195-1.007 -- Channel A

