Legals - Twn: 26 Rng: 06

NMOCD Hazard Ranking: 60

Operator: CAULKINS OIL CO

DEC 2 1 1998

BREECH 89 E Meter/Line ID - 95677

SITE DETAILS

Sec: 03

Unit: E

Land Type: 2 - Federal

Pit Closure Date: 07/05/94



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.
- 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

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 (Surface Water Body (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'	GENERAL	Meter: 25/47 Location: Breech R9E Operator #: 122D Operator Name Carlkin Did P/L District: Blanco Coordinates: Letter: 45 Section 4 Township: 26 Range: 6 Or Latitude Longitude Pit Type: Dehydrator Location Drip: \(\sqrt{Line Drip:Other: Site Assessment Date: \(\sqrt{7/94} \) Area: \(\sqrt{03} \) Run: \(\sqrt{64} \)
· · · · · · · · · · · · · · · · · · ·		(From NMOCD Maps Inside
1 01110	KS	1 011110
₹ Comemap + 15 Inside	AAR	Comeman + 15 Inside
E Ipit. Will Clase. PI+ Dry DIG-1-HAUL	RE	

	ORIGINAL PIT LOCATION
CATION	Original Pit : a) Degrees from North <u>295°</u> Footage from Wellhead 0' b) Length : 17′ Width : 17′ Depth : 3′
, LO	17'
ORIGINAL PIT LOCATION	1500 A 15°
	Remarks:
	End Dung
RKS	Wellhead is ~ 1500' uphill from the pit.
REMAR	
RI	
,	
	Completed By:
	Con Change L/7/94
	Signature Date

PHASE I EXCAVATION

FIF PIT REMEDIATION/CLOSI E FORM

GENERAL	Meter: 95567 Location: Breech 89E Coordinates: Letter: HE Section Township: 26 Range: 6 Or Latitude Longitude Date Started: 7-5-94 Area: 63 Run: 62
FIELD OBSERVATIONS	Sample Number(s): $KP 116$ Sample Depth: $12'$ Feet Final PID Reading 537 PID Reading Depth $12'$ Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CT OSTIRE.	
STOVE	Remarks: Some Line markers. Started Remediating to 12'. Soil Tuened Light gray with a small. At 12' Soil Still the Same Pid S37. closed Pit. Signature of Specialist: Lelly Padella
1	(SB3191) 04/07/



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

SAMPLE NUMBER: MTR CODE SITE NAME:	95677	9455	Lab 10 				
SAMPLE DATE TIME (Hrs):	7.5.94		104	0			
SAMPLED BY:	N/A						
DATE OF TPH EXT. ANAL.:	7/7/94	/	7/1/	94			
DATE OF BTEX EXT. ANAL.:	7/8/90	1	1/10/94	1			
TYPE DESCRIPTION:	٧.		DK BO	BWN Son	d/C/A	/	
RESULTS							
PARAMETER	RESULT	UNITS		QUALIFI		\//I\	
			DF	<u> </u>	M(g)	V(ml)	
BENZENE	2.3	MG/KG	10				
TOLUENE	34	MG/KG	10				
ETHYL BENZENE	17	MG/KG	10				
TOTAL XYLENES	190	MG/KG	10				
TOTAL BTEX	243	MG/KG					
TPH (418.1)	15,600	MG/KG			0.50	28	
HEADSPACE PID	537	РРМ			_		
PERCENT SOLIDS	88.0	%					
The Surrogate Recovery was at	- TPH is by EPA Method 4	18.1 and BTEX is by EPA % for this sampl		was accep	table.		

Narrative:

DF = Dilution Factor Used

```
Track Method don
Enewse and Retroleum Hydrocarbone
Tha Meber and Book
Table Wantification
 Triffiel mass of sample. g
  Thinks of sample after extraction, ml
Patroleum hydrotarbons, opm
17557.046
Mai abenrbance of hydrotarbons (2930 cm-1)
1.157
                                                              15:00
         in Petrolein Egánocarpons spectrum
177712
```

3000

2900

 $\circ m^{-1}$

147.47.1

1200



ATI I.D. 407327

July 14, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 07/08/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze 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.

Due to background interference in the sample the MS/MSD values were evaluted just outside ATI Quality Control (QC) limits.

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

Letitia Krakowski, Ph.D.

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.: 407327

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	345578	NON-AQ	07/05/94	07/08/94	07/10/94	10
08	9 45579	NON-AQ	07/05/94	07/08/94	07/10/94	10
09	945588	NON-AQ	07/06/94	07/08/94	07/10/94	10
PARAM	IETER		UNITS	07	08	09
BENZE	ENE		MG/KG	1.7	2.3	<0.25
TOLUE	ENE		MG/KG	93	34	<0.25
ETHYL	LBENZENE		MG/KG	8.3	17	1.6
	XYLENES		MG/KG	92	190	27
SURRO	DGATE:					J.
BROMO	OFLUOROBENZENE (%)			77	109	122*

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

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

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

Elevation
Borehole Location 726, R6, 5.3, E

GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed

S.Kelly

P. Tonohue

9/18/95, 1240

Date/Time Completed

9/18/95, 1340

Borehole # BH-1Well # I of I

Project Name EPNG Pits
Project Number 14509 Phase 601 6000
Project Location Breech 89E, 95677

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

Orilling Method 47/4/1 TD #5/4

Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Ai L EZ	r Monitor Inits: NO BH	^{iro} ^{1∪} 5/ॄ́́́́́́́́́́	Drilling Conditions & Blow Counts
10 15 20 25 30 35 40	- 2 3	18-20 -55 28-30	6	Sity SAND, grey, loose, 5-20% silt, Fine sand, dry. Sity SAND, brown, loose, 5-20% sith, Fine sand, dry SMA TOB-30.0		27			58 7/2	

Comments: 28'-30' sample (SEK 85) Sent to lab. (BTEX & TPH) Sample was bagged and iced prior to being put in jar. BH grouted to surface.

Geologist Signature Saugh Rollar



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK85	947486
MTR CODE SITE NAME:	95677	Breich 89E
SAMPLE DATE TIME (Hrs):	09-18-95	1305
PROJECT:	Phase II Diellin	
DATE OF TPH EXT. ANAL.:	9-20-95	
DATE OF BTEX EXT. ANAL.:	9/19/95	9/21/95
TYPE DESCRIPTION:	V61	Dark brown sand and clay
_		•
Field Remarks:		

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RE	_	
_	-	

PARAMETER	RESULT UNITS		QUALIFIERS				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			DF	Q	M(g)	V(ml)	
BENZENE	۷ 0.5	MG/KG					
TOLUENE	< 0.5	MG/KG			!		
ETHYL BENZENE	4 0.5	MG/KG					
TOTAL XYLENES	4 1.5	MG/KG					
TOTAL BTEX	43	MG/KG					
TPH (418.1)	4.5 < 10	MG/KG			2,12	28	
HEADSPACE PID	1	PPM					
PERCENT SOLIDS	93,5	%					
	TPH is by EPA Method	418.1 and BTEX is by E	PA Method 8020 -	-			

The Surrogate Recovery was at 103% for this sample All QA/QC was acceptable.

Narrative:

DE = Dilution Factor Used

DF = Dilution Factor Used	
	Date: 7-22-9
Approved By:	Date:

```
Test Method for
    Dil and Grease and Petroleum Hydrocarbons
             in Water and Spil
         Perkin-Elmer Model 1600 FT-IR
              Analysis Report
95/09/20 11:43
 Sample identification
947486
 Initial mass of sample, g
 Volume of sample after extraction, ml
  Petroleum hydrocarbons, ppm
* Net absorbance of hydrocarbons (2930 cm-1)
0.011
业
                                                     11:44
        ": Petroleum nydrocarbons spectrum
STEELE H
  :T
```

3890

BEGG

2899

 $\odot m^{-1}$

BTEX SOIL SAMPLE WORKSHEET

File	:	947486	Date Printed : 9/22/95	
Soil Mass	(g):	5.05	Multiplier (L/g) : 0.00099	
Extraction vol.	(mL):	20	DF (Analytical) : 200	
Shot Volume	(uL) :	100	DF (Report) : 0.19802	

				D	et. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.495
Toluene	(ug/L) :	0.00	Toluene (mg/Kg):	0.000	0.495
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.495
p & m-xylene	(ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000	0.990
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.495
			Total xylenes (mg/Kg):	0.000	1.485

Total BTEX (mg/Kg): 0.000

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\092195-1.004 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947486,5.05G,100U Acquired : Sep 21, 1995 16:02:00 Printed : Sep 21, 1995 16:28:28

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BHNZENE	4.917	0	0.0000
a,a,a TFT	6.687	4720142	1.02.2399
TOLUENE	8.707	0	0.0000
ETHYLBENZENE	12.743	0	0.0000
M & P XYLENE	13.000	0	0.0000
O XYLENE	14.200	0	0.0000
BIB	15.840	74809080	1.03.2003

C:\LABQUEST\CHROM001\092195-1.004 -- Channel A

