Meter Number:90697

DEC 22 1997 Location Name: Jicarilla Apache Tribal 35 #1

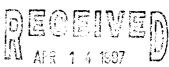
Location:TN-24 RG-05

SC-01 UL-K

6 - Jicarilla

MOCD Zone:OUTSIDE

Hazard Ranking Score:00





RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

10⁻⁹ to 10⁻¹³ cm/sec Sandstone 10⁻¹² to 10⁻¹⁶ cm/sec Shale 10⁻¹² to 10⁻¹⁵ cm/sec

Clay

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.



FIELD PIT SITE ASSESSMENT FORM EL PASO FIELD SERVICES

GENERAL	Meter: 90697 Location: Ticarilla Apacke Tribal 35 #/ Operator #: 0203 Operator Name: Amoco P/L District: 07170 Coordinates: Letter: K Section L Township: 24N Range: 50 Or Latitude Longitude Pit Type: Dehydrator X Location Drip: X Line Drip: Other: Site Assessment Date: 7-14-94 Area: 06 Run: 51				
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside				
Ω.	TOINID				
ARK	Remarks: Redline Book-outside, Vulnerable Zone Topo-outside				
REMARKS	Three pits - prip pit is dry has water coil in it				
	1 (SETION) 04/08/04				

ORIGINAL PIT LOCATION	Original Pit: a) Degrees from North 13 Food Kaw 7-17: 15 b) Length: 15 Width: 15 Wellhead 15 15 15 15	
REMARKS	Remarks: Pictures @ Roll#Z photo 10	
	Completed By: Signature	<u>7-/4-9</u> 4 Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90697 Location: <u>Jicarilla Apache Tribal 35</u> Coordinates: Letter: <u>K</u> Section <u>I</u> Township: <u>24</u> Range: <u>5</u> W Or Latitude Longitude Date Started: <u>9/1/95</u> Run: <u>06</u> <u>5</u> /
FIELD OBSERVATIONS	Sample Number(s): 5170 Sample Depth: $19'$ Feet Final PID Reading 13.0 Yes No Groundwater Encountered \square Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 9-7-95 Pit Closed By: Philip
REMARKS	Remarks: Pit Pic Reactings: (N-20) (5-81.0) (E-0.6) (N-2.0) Pit Size: 25+24×19 Fence size: 22×22×3 More Than 100' From FPhemral Strem Signature of Specialist: James K Kily



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK 70	94739/
MTR CODE SITE NAME:	90697	Aicarilla ApacheTribal 35#
SAMPLE DATE TIME (Hrs):	09-01-95	1221
PROJECT:	Jic Pits	
DATE OF TPH EXT. ANAL.:	9-5-95	
DATE OF BTEX EXT. ANAL.:	9/6/95	9/10/95
TYPE DESCRIPTION:	VG	DARR BROWN SAULY SIRY

Field Remarks: $(N-2.0)(5-81.0)(E-0.6)(\omega-2.0)$

RESULTS

DADAMETER	RESULT	UNITS	QUALIFIERS			
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE	4 5	MG/KG				-
TOLUENE	4.5	MG/KG			ļ	
ETHYL BENZENE	4.5	MG/KG				
TOTAL XYLENES	215	MG/KG				
TOTAL BTEX	23	MG/KG			ļ	
TPH (418.1)	123	MG/KG			2.01	28
HEADSPACE PID	13	PPM			<u> </u>	
PERCENT SOLIDS	27.6	%				

PERCENT SOCIOS				
	TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020			
The Surrogate Recovery was at	90%	for this sample	All QA/QC was acceptable.	
Narrative:				

Annound F

~******************* Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

> Perkin-Elmer Model 1600 FT-IR Analysis Report

95/09/05 14:39

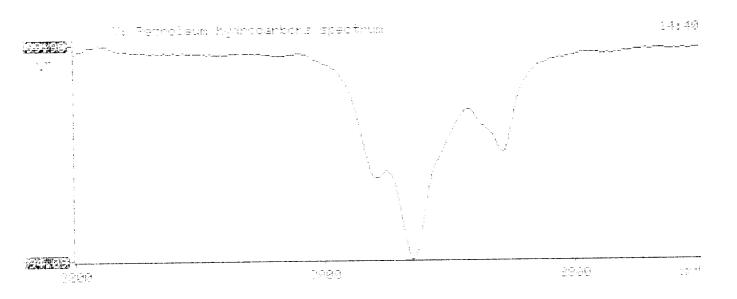
Sample identification PAZZ91

Initial wass of sample, g 1,010

Volume of cample after extraction, ml 13.000

Petroleum hydrocarbons, ppm 22.907

Net abscrbance of hydrocarbons (2930 cm-1) .025



BTEX SOIL SAMPLE WORKSHEET

File : Soil Mass (g) : Extraction vol. (mL) : Shot Volume (uL) :	947391 4.98 20 100	Date Printed : 9/11/95 Multiplier (L/g) : 0.00100 DF (Analytical) : 200 DF (Report) : 0.20080
Benzene (ug/L) :	0.00	Det. Limit Benzene (mg/Kg): 0.000 0.502

Toluene (ug/L): 0.00 Toluene (mg/Kg): 0.000 0.502

Ethylbenzene (ug/L): 0.64 Ethylbenzene (mg/Kg): 0.129 0.502

p & m-xylene (ug/L): 0.00 p & m-xylene (mg/Kg): 0.000 1.004

o-xylene (ug/L): 1.20 o-xylene (mg/Kg): 0.241 0.502 Total xylenes (mg/Kg): 0.241 1.506

Total BTEX (mg/Kg): 0.369

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090795-1.010 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947391,4.98G,100U Acquired : Sep 10, 1995 17:42:46 Printed : Sep 10, 1995 18:09:09

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.410	0	0.0000
a,a,a TFT	4.903	3249039	94.0853
TOLUENE	6.740	157224	-0.2365
ETHYLBENZENE	10.520	66546	0.6373
M & P XYLENE	10.873	400937	-2.8007
O XYLENE	11.933	55455	1.2000
BFB	13.413	54124740	90.3205

C:\LABQUEST\CHROM001\090795-1.010 -- Channel A

