DEUNCLE DE LES

DEC 29 1337

Meter Number: 73543

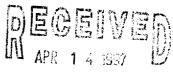
Location Name: Jicarilla Contract 146 #16

Location:TN-25 RG-05 SC-10 UL-M

6 - Jicarilla

NMOCD 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:

Sandstone 10<sup>-9</sup> to 10<sup>-13</sup> cm/sec Shale 10<sup>-12</sup> to 10<sup>-16</sup> cm/sec Clay 10<sup>-12</sup> to 10<sup>-15</sup> cm/sec

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

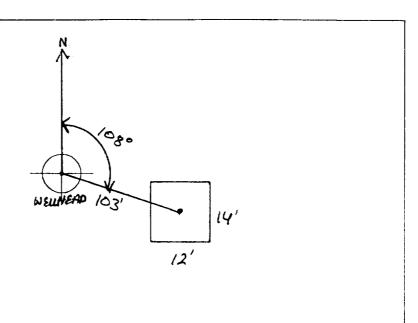


GENERAL	Meter: 73.543 Location:					
•	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type: BLM ☐ (1)  State ☐ (2)  Fee ☐ (3)  Indian ☐ (1)  Indian ☐ (1)  Indian ☐ (1)					
	Depth to Groundwater  Less Than 50 Feet (20 points)					
ASSESSMENT	Wellhead Protection Area:  Is it less than 1000 ft 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)					
SITE ASS	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 : 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:O POINTS					
Ar-'S	Remarks: REDUNE SHOWS INSIDE BUT TOPO SHOWS LOCATION OUTSIDE V.Z. TWO PITS ON LOCATION. LOCATION DRIP PIT BELONES TO					
REMAL	SPNG. WILL CLOSE PIT. OTHER PIT IS A COMPRESSOR PIT AND BELONES TO THE OPERATOR:  PLISH IN					

#### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 108° Footage from Wellhead 103'

b) Length : 14' Width : 12' Depth : \_\_\_\_1'



Remarks:

PHOTOS - 1145

\_\_\_\_\_

Completed By:

Signature

8.21.95

Date

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 23543 Location: Sicarilla contract 146 #16  Coordinates: Letter: A Section 10 Township: 25 Range: 5  Or Latitude Longitude  Date Started: 8/31/95 Run: 06 63
FIELD UBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:  Pit Closure Date: 9-8-95  Pit Closed By: Approx. Cubic Yards  From Jicanilla E.P.O. approved  Closure 9-6-95  Pit Closed By: Approx. Pit Closed By: Approved  Pit Closed By: Approx. Cubic Yards  Pit Closed By: Approx. Pit C
KEMAKKS	Remarks: Pit Pid Readings J-419/6-1683 (E-569/W-2962)  Pit Sice 8 x 9 x 4  Hit Rock at 4 Fest All walls are Book  Fence Size: 16 x 14 x 3  SPEANED PIT wirk soil enhancer 9-6-95  More Than 100' From EPhemral Strem  Signature of Specialist: July



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

#### **SAMPLE IDENTIFICATION**

_	Field ID	Lab ID
SAMPLE NUMBER:	AK67	947374
MTR CODE   SITE NAME:	73543	Jic Contract 146 #16
SAMPLE DATE   TIME (Hrs):	08-31-95	1031
PROJECT:	Jicfits	
DATE OF TPH EXT.   ANAL.:	9-5-95	
DATE OF BTEX EXT.   ANAL.:	9/1/95	7/5/95
TYPE   DESCRIPTION:	VG	LIGHT BROWN JAND + CLAY

Field Remarks: (N-419)(5-168.3) (E-569) (W-296.2)

#### **RESULTS**

PARAMETER	RESULT	UNITS		QUALIF	IERS	
			DF	Q	M(g)	∘V(ml)
BENZENE	21	MG/KG	2	N		
TOLUENE	< 1	MG/KG	2	n		
ETHYL BENZENE	< 1	MG/KG	2	D		
TOTAL XYLENES	4 3	MG/KG	2	10		
TOTAL BTEX	4 6	MG/KG	2	D		
TPH (418.1)	64.5	MG/KG			1.79	28
HEADSPACE PID	519.0	PPM				
PERCENT SOLIDS	924	%				

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

The	Surrogate	Recovery	was	at	
Nari	rative ·				

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for this sample All QA/QC was acceptable.

narrative:

DF = Dilution Factor Used

9-7-91-

95/09/05 11:56

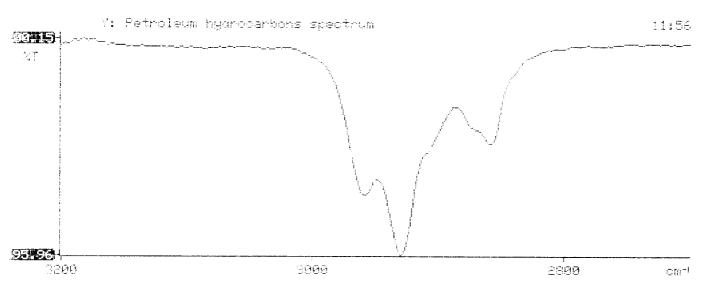
Sample identification 947374

Initial mass of sample, g

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm 64.492

Net absorbance of hydrocarbons (2930 cm-1)



#### **BTEX SOIL SAMPLE WORKSHEET**

File		:	947374	Date Printed : 9/6/95
Soil Mass	(g)	:	5.16	Multiplier (L/g) : 0.00097
Extraction vol.	(mL)	:	20	DF (Analytical) : 400
Shot Volume	(uL)	:	50	DF (Report) : 0.38760
				Det. Limit

					Dot. Lillin
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.969
Toluene	(ug/L) :	0.00	Toluene (mg/Kg):	0.000	0.969
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.969
p & m-xylene	(ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000	1.938
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000	0.969
			Total xylenes (mg/Kg):	0.000	2.907

Total BTEX (mg/Kg): 0.000

#### **EL PASO NATURAL GAS**

#### **EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\090595-1.022 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947374,5.16G,50U Acquired : Sep 04, 1995 23:58:33 Printed : Sep 05, 1995 00:24:51

User : MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.960	1950428	81.9539
TOLUENE	6.793	155763	-0.5363
ETHYLBENZENE	10.540	0	0.0000
M & P XYLENE	10.920	385548	-2.0649
O XYLENE	11.877	0	0.0000
BFB	13.467	32526402	92.6026

#### C:\LABQUEST\CHROM001\090595-1.022 -- Channel A

