Denny & Town DEPUTY ON & ONS MISHESHOR

DEC 2 2 1997

Meter Number:93530 Location Name:Apache #28 Location:TN-24 RG-04 SC-24 UL-K

6 - Jicarilla

NMOCD Zone:OUTSIDE Hazard Ranking Score:00

OLGON DIV.

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



GENERAL	Meter: 93530 Location: APACHE # 28 Operator #: 750 Operator Name: PACHE P/L District: DXITO Coordinates: Letter: K Section 24 Township: 24 Range: 4 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 11-21-95 Area: 08 Run: 73					
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM □ (1) State □ (2) Fee □ (3) Indian APACh€					
SITE ASSESSMENT	Depth to Groundwater 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 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)					
	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 <i>MEDIO CAMPIN</i> (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: POINTS					
REMAF	Remarks: PH 15 C15770 OUTSIDE W.U. ZONE (TOPO ! REDCLIDE)					

Signature

11-21-95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93530Location: AMCHE #38 Coordinates: Letter: K Section 24 Township: 24 Range: 4 Or Latitude Longitude Longitude Date Started: 11/30/95 Run: 08 73
FIELD OBSERVATIONS	Sample Number(s): Sample Depth: Feet Final PID Reading . 28-9 PID Reading Depth Feet Yes No Groundwater Encountered Approximate Depth Feet
ROSTIDE	
DAG PAGE	Remarks: Pit Pic Readings (J-800) (5-255) (E-28) (W-16.0) Pit Size 29 x 20 x 20 Fenc Size 17 x 15 More Than 100' From Ethemral Stren Signature of Specialist: James K. Him



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

Ţ	Field I	<u> </u>		ab ID		
SAMPLE NUMBER:	5K 151		947818			
MTR CODE SITE NAME:	93530	Apache #28				
SAMPLE DATE TIME (Hrs):	11-30-95		1500			
PROJECT:	Phase I No	vijo				
DATE OF TPH EXT. ANAL.:	12/1	/95	13 / /			
DATE OF BTEX EXT. ANAL.:	1 1711-1		12/,/9			
TYPE DESCRIPTION:	V6		thre trown	5md	J (174)	
Field Remarks:		ESULTS				
		-	T		urno.	
PARAMETER	RESULT	UNITS	DF	QUALIF Q	M(g)	V(ml)
BENZENE	20.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	4 0.5	MG/KG				
TOTAL XYLENES	1.5	MG/KG				
101112 1112	1 , 7 1					
TOTAL BTEX	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	MG/KG				
	< 10	MG/KG MG/KG			(.98	28
TOTAL BTEX					361)	38
TOTAL BTEX TPH (418.1)	<10	MG/KG PPM %	- B. W.		(.98	38

95/12/01 14:36

Sample identification 947818

Initial mass of sample, g

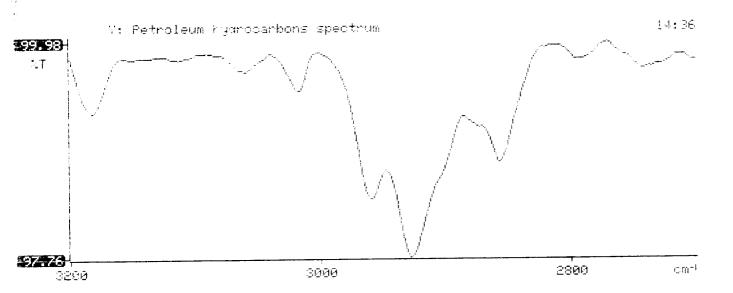
Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm

-10.923

Net absorbance of hydrocarbons (2930 cm-1)

0.009



BTEX SOIL SAMPLE WORKSHEET

File Soil Mas Extraction vo Shot Volum	s (g) I. (mL)	:	947818 5.06 10 50	Date Properties Multiplier CAL FACTOR (Are CAL FACTOR)	(L/g) : nalytical):	12/2/95 0.00099 200 0.19763	
				DILUTION	FACTOR:	1	Det. Limit
Benzene	(ug/L)	:	0.00	Benzene	(mg/Kg):	0.000	0.494
Toluene	(ug/L)		0.20	Toluene	(mg/Kg):	0.040	0.494
Ethylbenzene	(ug/L)		0.00	Ethylbenzene	(mg/Kg):	0.000	0.494
p & m-xylene	(ug/L)		0.00	p & m-xylene	(mg/Kg):	0.000	0.988
o-xylene	(ug/L)		0.00	o-xylene	(mg/Kg):	0.000	0.494
- ,	, 5 ,			Total xylenes	(mg/Kg):	0.000	1.482
				Total BTEX	(mg/Kg):	0.040	

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\120195-1.009 Method : C:\LABQUEST\METHODS\1-112095.MET

Sample ID : 947818,5.06G,50U Acquired : Dec 01, 1995 21:01:36 Printed : Dec 01, 1995 21:27:55

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	5.590	0	0.0000
TOLUENE	9.693	52178	0.1962
ETHYLBENZENE	13.827	0	0.0000
M & P XYLENE	14.183	0	0.0000
O XYLENE	15.340	0	0.0000
BFB	16.940	61892728	94.0183

