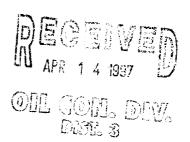
DENTAL COLOR

Meter Number:71723
Location Name:MCCULLEY LS 3
Location:TN-28 RG-09
SC-24 UL-L
2 - Federal
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:

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

4								
GENERAL	Meter: 71723 Location: McCulley 153 Operator #: 0203 Operator Name: 9/L District: 134/14v0 Coordinates: Letter: L Section 24 Township: 28 Range: 9 Or Latitude Longitude Pit Type: Dehydrator \(\subseteq \) Location Drip: Line Drip: Other: Site Assessment Date: 6-10-94 Area: 1/L Run: 92							
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) State (2) Indian Reaco Congrete (3) Congreter Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (10 points) (3) Name of Surface Water Body (Surface Water Body: (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canais, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) TOTAL HAZAPD PANKING GROUP							
SS	Remarks: Two prts on location. Delig of has approx							
REMARKS	6 Wages Dig IT							
REA	cintsude V.Z. on Redone & Topo							

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 77723 Location: Mc Culley 653 Coordinates: Letter: 6 Section 24 Township: 28 Range: 9 Or Latitude Longitude Longitude Date Started: 9-12-94 Run: 11 92							
FIELD OBSERVATIONS	Sample Number(s): \(\frac{\sqrt{265}}{\sqrt{265}} \) Sample Depth: \(\frac{\sqrt{2}}{\sqrt{265}} \) Final PID Reading \(\frac{379}{\sqrt{265}} \) Yes No Groundwater Encountered \(\sqrt{265} \) Approximate Depth \(\frac{\sqrt{265}}{\sqrt{265}} \) Feet							
CLOSURE	Remediation Method: Excavation							
REMARKS	Pit Closure Date: 9-12-94 Remarks: 4 Scaletone Signature of Specialist: Vale Walsey							



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Lab ID									
SAMPLE NUMBER:	yw 265		946098							
MTR CODE SITE NAME:	aud 9 71723		N/A							
SAMPLE DATE TIME (Hrs):	14	0945								
SAMPLED BY:	····									
DATE OF TPH EXT. ANAL.:	9-13-94		9-13-92							
DATE OF BTEX EXT. ANAL.:	N/A		N/A							
TYPE DESCRIPTION:	V 6		BK Grey Sand/Clay							
REMARKS:				<i></i>						
RESULTS										
				7.72.1.7						
PARAMETER	RESULT	UNITS	DF	QUALIFI Q	ERS M(g)	V(ml)				
трн (418.1) 6/40	6136.2 Aw	y 9/16/94 MG/KG			1.43	28				
HEADSPACE PID	379	PPM								
PERCENT SOLIDS	87.5	%								
		TPH is by EPA Metho	d 418.1							
Narrative:			.,,,							
DF = Dilution Factor Used										
Approved By:			Date:	9/20/	a y					

\;****************** Test Method for Oil and Grease and Petroleum Hydrocarbons * * in Water and Soil * Perkin-Elmer Model 1600 FT-IR * 24/09/13 15:50 Sample identification 746098 Initial mass of sample, g Volume of sample after extraction, ml TS.000 Petroleum hydrocarbons, ppm Herroreum Hydrocarcons, ppm :136.170 Net absorbance of hydrocarbons (2930 cm-1) 1.545

