Denny & Fort

Meter Number:94516

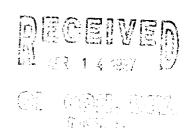
DEC 2 2 1997

Location Name: Lindrith B #23 Location: TN-24 RG-03

SC-16 UL-G

2 - Federal NMO¢D Zone:OUTSIDE

Hazari 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:

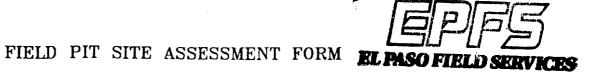
Sandstone 10^{-9} to 10^{-13} cm/sec Shale 10^{-12} to 10^{-16} cm/sec Clay 10^{-12} to 10^{-15} cm/sec

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.





Meter: 94514 Location: LINDRITH B#23 Operator #: Operator Name: P/L District: OTHO Coordinates: Letter: G Section 16 Township: 24 Range 3 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 11-21-95 Area: 08 Run: 83					
NMOCD Zone: Land Type: BLM ★ (1) (From NMOCD State (2) Maps) Inside (1) Fee (3) Outside ★ (2) Indian Indian Depth to Groundwater (1) (1) (2) Less Than 50 Feet (20 points) (1) (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 (ARGO WAS)					
(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					
Remarks: Pit ListED putSIDE W.V. ZONE.					

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94516 Location: Lindrith B #23 Coordinates: Letter: 6 Section 16 Township: 24 Range: 3 Or Latitude Longitude Date Started: 12/1/55 Run: 03 83
FIELD OBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 12/2/95 Pit Closed By: Philip
REMARKS	Remarks: P. T. Pick Reactings (N-0.6) (5.5.6) (E-1.2) (W-1.1) PIT Size 17X 16 x 10 Fenc Size 15 x 17 Nore Than 100' From Ethemral strem Signature of Specialist: And X. Kill.



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID	Lab ID
MTR CODE SITE NAME:	9451	947825
SAMPLE DATE TIME (Hrs):	12/1/95	Lindrith B # 23
PROJECT: DATE OF TPH EXT. ANAL.:	Phase I Harry	
DATE OF BTEX EXT. ANAL.:	12/4/05	12/
TYPE DESCRIPTION:	VG	12/4/95 Doka C
		Pair pour mantenant man

REMARKS: (N-0.6)(5-5.6)(E-1.2)(w-1.1)

RESULTS

RESULT	UNITS	- 5-		LIFIERS		ATI Passil
1 05		UF UF	<u> </u>	M(g)	V(ml)	ATI Result
- C.	MG/KG					
< 0.5	MG/KG				 	-
< 0.5		-			 	-
		+	 	+		-
43		 	-			
624				1.22	200	
4.4				1.99	~8	Sugar
920	%			 		Surrogate % Dilution Factor
	 < 0.5 < 0.5 < 0.5 < 1.5 < 3 624 	 ∠ ○ . 5 MG/KG ∠ ○ . 5 MG/KG ∠ ○ . 5 MG/KG ∠ 1 . 5 MG/KG ∠ 3 MG/KG ∠ 3 MG/KG ∠ 4 PPM 	DF CO.5 MG/KG CO.5 MG/KG CO.5 MG/KG CO.5 MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG MG/KG	QUA DF Q CO.5 MG/KG CO.5 MG/KG CO.5 MG/KG CO.5 MG/KG CO.5 MG/KG CO.5 MG/KG MG/KG AMG/KG AMG/KG AMG/KG AMG/KG AMG/KG AMG/KG AMG/KG AMG/KG	Co.5 MG/KG MG/KG Co.5 MG/KG MG/KG	Co.5 MG/KG Co.5

The Surrogate Recovery was at Narrative:	TPH is by EPA Method 418.1 and BTE. 101 % for this samp	X is by EPA Method 8020	
	- The samp	All QA/QC was acco	eptable.

DF = Dilution Factor Used		
Approved By:	Date:	12-7-94

BTEX SOIL SAMPLE WORKSHEET

File		:	947825	Date Printed :	12/5/95
Soil Mass	(g)	:	5.06	Multiplier (L/g) :	0.00099
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
Shot Volume	(uL)	:	50	CAL FACTOR (Report):	0.19763

			DILUTION FACTOR:	1	Det. Limit
Benzene	(ug/L) :	0.14	Benzene (mg/Kg):	0.028	0.494
Toluene	(ug/L) :	0.34	Toluene (mg/Kg):	0.067	0.494
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000	0.494
p & m-xylene	(ug/L) :	0.22	p & m-xylene (mg/Kg):	0.043	0.988
o-xylene	(ug/L) :	0.10	o-xylene (mg/Kg):	0.020	0.494
			Total xylenes (mg/Kg):	0.063	1.482
			Total BTEX (mg/Kg):	0.158	

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\120495-0.009 Method : C:\LABQUEST\METHODS\0-120195.MET

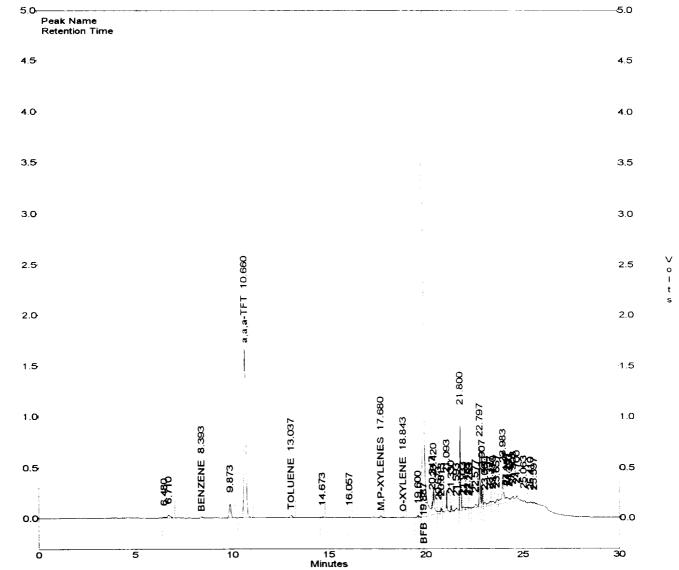
Sample ID : 947825,5.06G,50U Acquired : Dec 04, 1995 20:11:39 Printed : Dec 04, 1995 20:42:02

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L
BENZENE	8.393	76820	0.1378
a,a,a-TFT	10.660	11805027	0.0000
TOLUENE	13.037	180257	0.3411
ETHYLBENZENE	17.310	0	0.0000
M, P-XYLENES	17.680	114753	0.2160
O-XYLENE	18.843	43912	0.0971
BFB	19.887	57689988	100.7177

C:\LABQUEST\CHROM000\120495-0.009 -- Channel A



************************************ Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 95/12/06 11:59 Sample identification 947825 Initial mass of sample, g 1.990 Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 624.267 Net absorbance of hydrocarbons (2930 cm-1) 0.085

