## DEPUTY OIL ELEPASO FIELD SERVICES PRODUCTION PIT CLOSURE

### **MUCHO DEAL #1** Meter/Line ID - 90019

### SITE DETAILS

Legals - Twn: 30

Rng: 14

Unit: F

NMOCD Hazard Ranking: 10 Operator: DUGAN PRODUCTION CORP Land Type: 2 - Federal

Pit Closure Date: 01/25/95

### RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring: therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will environment. minimal the degrade time with naturally



## FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 90019 Location: Mucho DEAL #1  Operator #: Operator Name: Dugan Prop. P/L District: Ku72  Coordinates: Letter: F Section 14 Township: 30 Range: 14  Or Latitude Longitude  Pit Type: Dehydrator X Location Drip: Line Drip: Other:  Site Assessment Date: 1.11.95 Area: 02 Run: 23
ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  Thank (2)  Greater 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?  [1)  [1)  [2]  [3]  [4]  [5]  [6]  [7]  [8]  [8]  [9]  [9]  [10]  [9]  [10]  [9]  [10]  [9]  [10]  [9]  [10]  [9]  [10]
SITE AS	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 (oncolumna Area)  (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'
<u>.</u>	TOTAL HAZARD RANKING SCORE:POINTS
KS	Remarks: REDLINE: TOPO SHOW LOCIATION INSERE U.Z. 3 PITS ON LOCATION
REMARKS	DEHY PIT BELGNER TO EPNE. WILL CLOSE PLT.
REN	NIZ & ELAHI

	ORIGINAL PIT LOCATION
NO	Original Pit : a) Degrees from North <u>160°</u> Footage from Wellhead <u>59′</u> b) Length : <u>17′</u> Width : <u>16′</u> Depth : <u>3′</u>
ORIGINAL PIT LOCATION	WEULHEAD 32
	Remarks:
MARKS	
REM	
	Completed By:
	Signature Date

I

# PHASE I EXCAVATION

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 90019 Location: MucHo Decl #1  Coordinates: Letter: F Section 14 Township: 30 Range: 14  Or Latitude Longitude  Date Started: 1.25-95 Run: 02 23 1/26/95 PSR
FIELD OBSERVATIONS	Sample Number(s): KP391  Sample Depth: 2' Feet Find PID Reading Depth 2' Feet  Yes No  Groundwater Encountered \( \text{X} \) Approximate Depth Feet
CLOSURE	Soil Disposition:
REMARKS	Remarks: No like markers: Started Remediating to 12: Hit SAND STONE At 2' SAMPLED Closed Pit  Signature of Specialist: Kelly Padule
	(SP3191) 03/16/



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 391	944595
MTR CODE   SITE NAME:	90019	N/A
SAMPLE DATE   TIME (Hrs):	1-25-95	1,00
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	1-28-95	1-28 . 95
DATE OF BTEX EXT. ANAL.:	1/26/95	1/29/95
TYPE   DESCRIPTION:	VG	DANK Brown cay And sand)

REMARKS:	very	tow	SAWA	مام
----------	------	-----	------	-----

### **RESULTS**

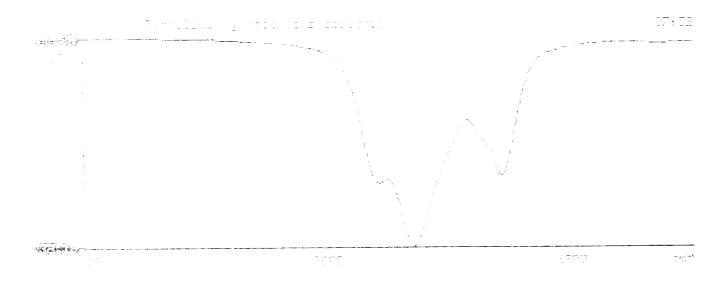
PARAMETER	RESULT	UNITS		QUALIFIERS				
PARAMETER		J	DF	Q	M(g)	V(ml)		
BENZENE	2.06	MG/KG	0.41841		4.78	20		
TOLUENE	95,5	MG/KG						
ETHYL BENZENE	11.6	MG/KG						
TOTAL XYLENES	190	MG/KG			1	<u> </u>		
TOTAL BTEX	299	MG/KG						
TPH (418.1)	19100	MG/KG			0.420	28		
HEADSPACE PID	103	PPM		· · · · · ·				
PERCENT SOLIDS	80.4	%						

The Surrogate Recovery was at 72.9 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

The Company of the Co



```
Test Method for
Oil and Grease and Petroleum Hydrocarbons
                                                葉
                                                *
                in Water and Soil
          Perkin-Elmer Model 1600 FT-IR
                 Analysis Report
75/01/78 07:52
: Bample identification
746575
  Initial mass of sample, g
  Volume of sample after extraction, ml
28.000
Ŕ
* Patroleum hydrocarbons, ppm
19138.992
\stackrel{+}{\text{Net}} absorbance of hydrocarbons (2930 cm-1) 0.500
.1,
¥
ф.
                                                             07:52
         Y: Petroleum hydrocarbons spectrum
```

3000

3290

2899

 $\odot m^{-1}$ 

### BTEX SOIL SAMPLE WORKSHEET

File	:	946595A	Date Printed	:	1/30/95
Soil Mass	(q):	4.78	Multiplier (L/g)	:	0.00105
Extraction vol. (		20	DF (Analytical)	:	400
Shot Volume	•	50	DF (Report)	:	0.41841

					İ	Det. Limit
Benzene	(ug/L) :	4.92	Benzene	(mg/Kg):	2.059	2.092
Toluene	(ug/L) :	228.21	Toluene	(mg/Kg):	95.485	2.092
Ethylbenzene	(ug/L) :	27.79	Ethylbenzene	(mg/Kg):	11.628	2.092
p & m-xylene	(ug/L) :	360.50	p & m-xylene	(mg/Kg):	150.837	4.184
o-xylene	(ug/L) :	93.07	o-xylene	(mg/Kg):	38.941	2.092
- ·· <b>,</b>	( ) /		Total xylenes	(mg/Kg):	189.778	6.276
			Total BTEX	(mg/Kg):	298.950	

### EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946595A

Method: C:\LABQUEST\METHODS\CALCBTEX.MET

Sample ID : 946595,4.78G/50uL Acquired : Jan 29, 1995 22:49:28 Printed : Jan 30, 1995 11:10:06

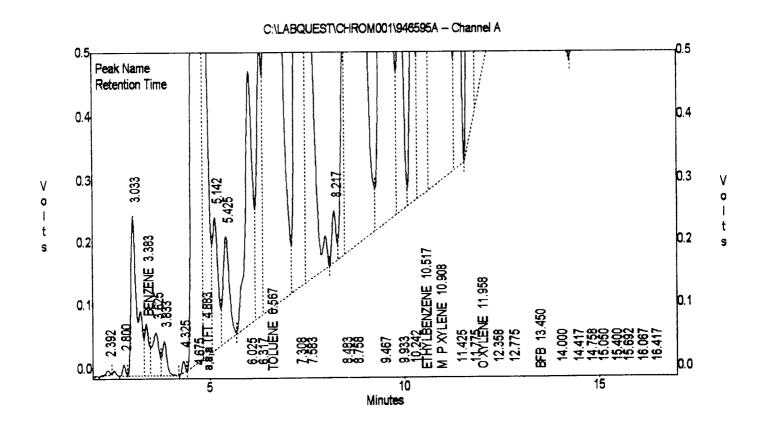
User : Tony

### Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE a,a,a TFT TOLUENE ETHYLBENZENE M & P XYLENE O XYLENE BFB	3.383	633707	121531.74219	4.9195
	4.883	7495228	32055.68359	230.0320
	6.567	56395668	314479.71875	228.2060
	10.517	6265101	228573.29688	27.7867
	10.908	90754944	316768.40625	360.4964
	11.958	20509520	221087.17188	93.0678
	13.450	88547936	944778.31250	92.8571

Totals :

270602112 1037.3655



# EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946595A

Method : C:\LABQUEST\METHODS\CALCBTEX.MET

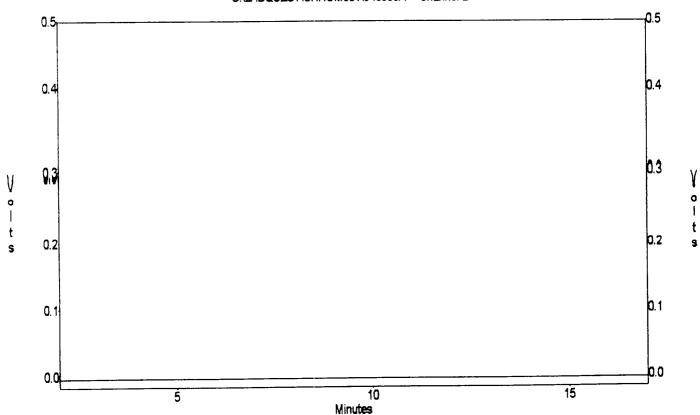
Sample ID : 946595,4.78G/50uL Acquired : Jan 29, 1995 22:49:28 Printed : Jan 30, 1995 11:10:14

User : Tony

### Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.367	0	0.00000	0.0000
a,a,a TFT	4.883	0	0.00000	0.0000
TOLUENE	6.700	0	0.00000	0.0000
ETHYLBENZENE	10.480	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.900	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000
Totals :				
TOTALS:		0		0.0000

### C:\LABQUEST\CHROM001\946595A - Channel B



# PHASE II

### RECORD OF SUBSURFACE EXPLORATION

# PHILIP ENVIRONMENTAL

4000 Monroe Road

Fermington, New Mexico 87401

(506) 326-2262 FAX (506) 326-2388

Elevation

Borehole Location T30, R14, 514, F

GWL Depth

Logged By

Drilled By

Date/Time Started

Date/Time Completed 09127195 1605

Borehole #	1	BH-1	
Well #			
Page	1	of	

Project Name EPNG PITS

Project Number 14509 Phase 6000,77

Project Location Match Seq # 90019

Well Logged By

Personnel On-Site

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	ł	Monitor vits: PP BH	Drilling Conditions & Blow Counts
5				Backfill material					
10				sus, BR SAND, medium to coone - ground sand, dry medium one, hy to carbon odor.	-				1506 17 blaws gen Foot 1511
20				S.A.A.  Boring terminated on 25'					1511 1566ms per Foot 1517 1866ms per Foot
30				Goring terminately of					

Comments: Samuel collected From 23 to 25 feet (DWK 94). Sample analyzed For BTEX /TPH. BH growted to the Surface

Geologist Signature Saltay W. Kmila



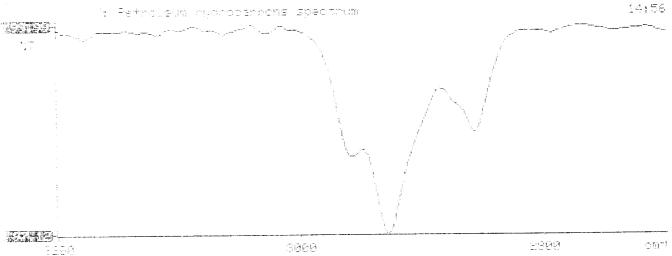
## FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION							
	Field II	 D	<u>-</u> -	Lab ID			
SAMPLE NUMBER:	JWK94		947564				
MTR CODE   SITE NAME:	90019		Mucho Deal #1				
SAMPLE DATE   TIME (Hrs):	09-27-95		1517				
PROJECT:	Phase It						
DATE OF TPH EXT. ANAL.:	1.0/3,			- , - · · · · · · · · · · · · · · · · ·			
DATE OF BTEX EXT.   ANAL.:	10/2/9.	5	10/2/95				
TYPE   DESCRIPTION:	VG		Lightbrown	Sand 2 50	evel Storie		
Field Remarks:							
	R	ESULTS					
PARAMETER	RESULT	UNITS	DF DF	QUALIFIE	RS M(g)	V(ml)	
BENZENE	4 6 5	MG/KG					
TOLUENE	4 0.5	MG/KG					
ETHYL BENZENE	< c.5	MG/KG					
TOTAL XYLENES	4 1.5	MG/KG					
TOTAL BTEX	43	MG/KG					
TPH (418.1)	16.1	MG/KG			2.01	78	
HEADSPACE PID		PPM					
PERCENT SOLIDS	94.2	<u> </u>				terite territe	
The Surrogate Recovery was at Narrative:	TPH is by EPA Method 4		e All QA/QC		able.		
DF = Dilution Factor Used Approved By:			Date:	10-4-	95		

Approved By: \_\_\_\_\_

```
The transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer to the transfer t
```



Test Method for Oil and Grease and Petroleum Hydrocarbons ¥ in Water and Soil \*  $\frac{1}{2}$ Perkin-Elmer Model 1600 FT-IR Ż Analysis Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 95/10/03 14:55 \* Sample identification 947564 Initial mass of sample, G  ${\rm k}$ Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 16.075 Net absorbance of hydrocarbons (2930 cm-1) 0.012 ŵ 1 14:56 Y: Petroleum hydrocarbons spectrum %T

3000

 $\circ m^{-1}$ 

2800

97.12

3200

### BTEX SOIL SAMPLE WORKSHEET

File	:	947564	Date Printed	:	10/3/95
Soil Mass	(g) :	4.97	Multiplier (L/g)	:	0.00101
Extraction vol.	(mL) :	10	DF (Analytical)	:	200
Shot Volume	(uL) :	50	DF (Report)	:	0.20121

					L	Jet. Limit
Benzene	(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	0.503
Toluene	(ug/L) :	0.34	Toluene	(mg/Kg):	0.068	0.503
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene	(mg/Kg):	0.000	0.503
p & m-xylene	(ug/L) :	0.57	p & m-xylene	(mg/Kg):	0.115	1.006
o-xylene	(ug/L) :	0.00	o-xylene	(mg/Kg):	0.000	0.503
•			Total xylenes	(mg/Kg):	0.115	1.509
			Total BTEX	(mg/Kg):	0.183	

### EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\100295-1.007 Method : C:\LABQUEST\METHODS\1-091895.MET

Sample ID : 947564.4.97G,50U Acquired : Sep 30, 1995 17:40:16 Printed : Sep 30, 1995 18:06:37

User : MARLON

### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.657	4561463	98.8029
TOLUENE	8.697	95347	0.3433
ETHYLBENZENE	12.710	0	C.0000
M & P XYLENE	13.070	188022	C.5675
O XYLENE	14.208	0	0.0000
BFB	15.747	69916888	96.4515

