

Denny A. Smith
EPES SITE CLOSURE SUMMARY
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998
Approved

Huerfanito No. 11-1
Meter/Line ID - 71358

SITE DETAILS

Legals - Twn: 26 Rng: 9
NMOCB Hazard Ranking: 30
Operator: Meridian

Sec: 1 Unit: A
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 6/22/94
Monitor Well: N/A

Excavation: 8/11/94
Re-Excavation: N/A

Soil Boring: 8/19/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to 7 feet below ground surface (bgs). PID field screening indicated soils to be below 100 ppm at 7 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated BTEX compounds were below standards, but TPH was just above standards at 121 mg/kg. A test boring was advanced in the center of the initial excavation to determine the extent of the impact to soils. A very hard sand, possibly sandstone was encountered at 13-15 feet bgs, just 6 feet below the bottom of the excavation, and a sample was collected. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 31.4 mg/kg present in the soil.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- The soils below the excavation were a very hard sand, possibly sand stone.
- Test boring sample results indicated soils below standards 6 feet below the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

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FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 71358 Location: Huerfano No. 11-1
 Operator #: 2999 Operator Name: Meridian P/L District: Ballard
 Coordinates: Letter: A Section 1 Township: 26N Range: 9W
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 6-22-94 Area: 11 Run: 91

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD Maps)

Inside

Outside

Land Type:

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

☒ (1)

☐ (2)

Depth to Groundwater

Less Than 50 Feet (20 points)

50 Ft to 99 Ft (10 points)

Greater Than 100 Ft (0 points)

☒ (1)

☐ (2)

☐ (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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☐ (1)

☒ (2)

☐ (3)

Name of Surface Water Body Red Canyon Wash

(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: 30 POINTS

REMARKS

Remarks : one pit. Pit is dry

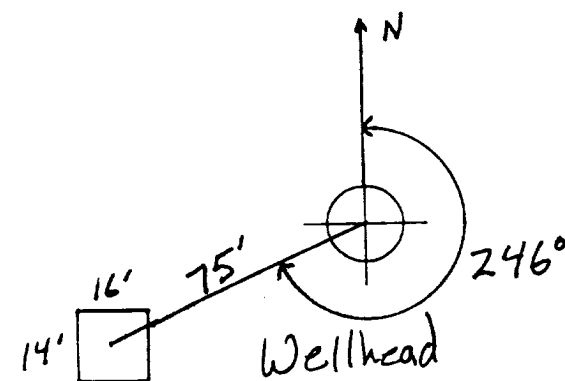
Inside V.Z. on Redline & Topo

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DIST. 3

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 246 Footage from Wellhead 75
 b) Length : 16 Width : 14 Depth : 4



Remarks :

Photos - 1253

Bobtail

Completed By:

[Signature]

Signature

6-22-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>71358</u> Location: <u>Huerfano No. 11-1</u> Coordinates: Letter: <u>A</u> Section <u>1</u> Township: <u>26</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Date Started : <u>8-11-94</u> Run: <u>11</u> <u>91</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KP179</u> Sample Depth: <u>7'</u> Feet Final PID Reading <u>002</u> PID Reading Depth <u>7'</u> Feet <div style="text-align: center;">Yes No</div> Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div> Excavation Onsite Bioremediation Backfill Pit Without Excavation </div> <div style="text-align: right;"> <input checked="" type="checkbox"/> Approx. Cubic Yards <u>30</u> <input type="checkbox"/> <input type="checkbox"/> </div> </div> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div> Envirotech Other Facility </div> <div style="text-align: right;"> <input checked="" type="checkbox"/> <input type="checkbox"/> Tierra <input type="checkbox"/> Name: _____ </div> </div> Pit Closure Date: <u>8-11-94</u> Pit Closed By: <u>B.E.I</u>
REMARKS	Remarks : <u>Some Lime marker on location. Started Remediation</u> <u>Soil light gray At 7' Soil looked clean took sample 002</u> <u>closed pit.</u>
	Signature of Specialist: <u>Kelly Padilla</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 179	945905
MTR CODE SITE NAME:	71358	N/A
SAMPLE DATE TIME (Hrs):	8-11-94	1140
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-16-94	8/16/94
DATE OF BTEX EXT. ANAL.:	8/17/94	8/19/94
TYPE DESCRIPTION:	VC	Brown clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	121	MG/KG			2.16	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	84.6	%				

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

The Surrogate Recovery was at 91 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached.

DF = Dilution Factor Used

Approved By:

J. S.

Date:

9/2/94

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*****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
Perkin-Elmer Model 1600 FT-IR
Analysis Report
*****

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94/06/16 12:34

1 Sample identification
545905

2 Initial mass of sample, g
1.160

3 Volume of sample after extraction, ml
13.000

4 Petroleum hydrocarbons, ppm
120.761

5 Net absorbance of hydrocarbons (2930 cm⁻¹)
0.019

Y: Petroleum hydrocarbons spectrum

12:34





Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **408364**

August 24, 1994

El Paso Natural Gas Company
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **08/17/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408364
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945904	NON-AQ	08/11/94	08/17/94	08/19/94	1
08	945905	NON-AQ	08/11/94	08/17/94	08/19/94	1
09	945906	NON-AQ	08/11/94	08/17/94	08/19/94	1

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	0.067	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	0.16
TOTAL XYLENES	MG/KG	<0.025	<0.025	0.42

SURROGATE:

BROMOFLUOROBENZENE (%) 99 91 112

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

JWK35

Borehole # BH-1

Well #

Page 1 of 1

Project Name

EPNG Pits

Project Number

14509

Phase

6000.77

Project Location

Huerfano No 11-1 71358

Elevation

Borehole Location T26N, R9W, S2E, A

GWL Depth

Logged By Jeff W. Kindley

Drilled By G. Sudduth

Date/Time Started 08/19/95 1130

Date/Time Completed 08/19/95 1233

Well Logged By

Jeff W. Kindley

Personnel On-Site

D. Roberts, G. Sudduth, J. King

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)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				Backfill material to 7'						
5										
10										
15	1	13-15'	1.4 2.0	SW, Br Sand, moist, dense, no odor. Boring terminated at 15'				0/1	1211	48 blows per Foot
20										
25										
30										
35										
40										

Comments:

Soil sample collected from 13 to 15' and analyzed for BTEX and TPH. BH grouted to the surface

Geologist Signature

Jeff W. Kindley



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK 35	947278
MTR CODE SITE NAME:	71358	Huerfano No. 11-1
SAMPLE DATE TIME (Hrs):	08-18-95	12:11
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL:	8-21-95	8-21-95
DATE OF BTEX EXT. ANAL:	8/23/95	8/23/95
TYPE DESCRIPTION:	VG	fine brown sand

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	31.4 ^{8/23/95}	MG/KG			2.03	28
HEADSPACE PID	1	PP				
PERCENT SOLIDS	93.2	%				

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

The Surrogate Recovery was at 108 % for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: 2-PDate: 8/28/95

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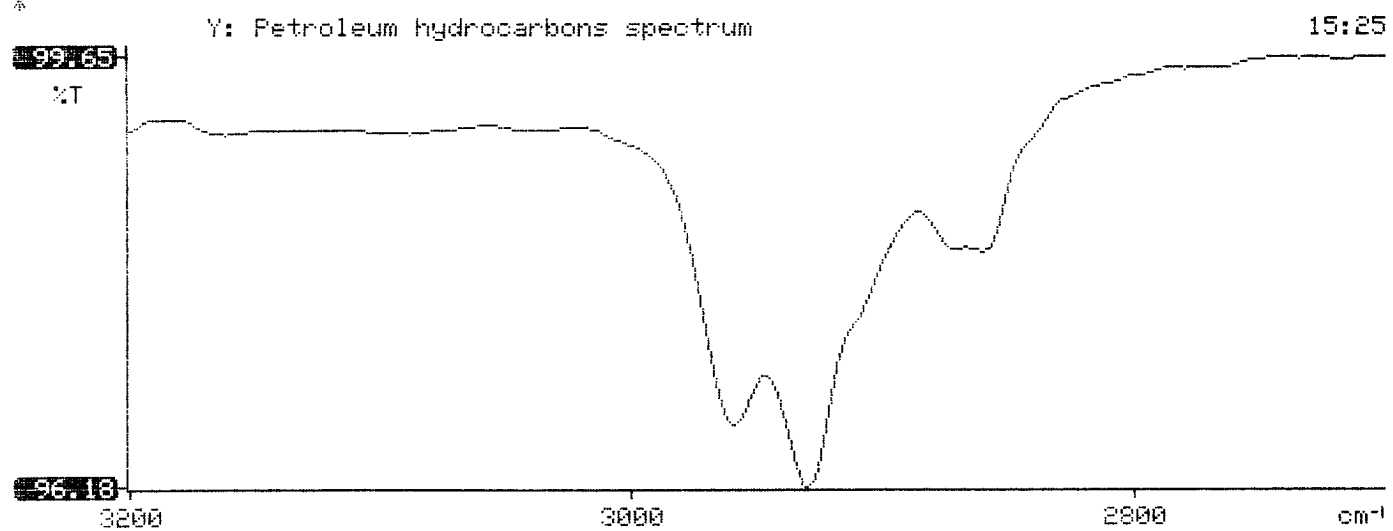
*****
*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR *
*      Analysis Report        *
*                               *
*****

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*
* 95/08/21 15:25
*
* Sample identification
* 947278
*
* Initial mass of sample, g
* 2.030
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 31.415
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.014
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947278	Date Printed	:	8/25/95
Soil Mass (g)	:	4.91	Multiplier (L/g)	:	0.00102
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20367

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.509
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.509
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.509
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.018
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.509
			Total xylenes (mg/Kg):	0.000 1.527
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082395-1.015
 Method : C:\LABQUEST\METHODS\0001.MET
 Sample ID : 947278,4.91G,100U
 Acquired : Aug 24, 1995 00:52:32
 Printed : Aug 24, 1995 01:18:45
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.440	0	0.0000
a,a,a TFT	4.890	4842458	93.1068
TOLUENE	6.733	114169	-0.4314
ETHYLBENZENE	10.537	0	0.0000
M & P XYLENE	10.860	55977	-5.0123
O XYLENE	11.943	0	0.0000
BFB	13.417	77959288	108.2261

