

James R. Smith
REPORT SUMMARY
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Ballard No. 10
Meter/Line ID - 70770

Approved

SITE DETAILS

Legals - Twn: 26 Rng: 9
NMOCD Hazard Ranking: 20
Operator: Meridian

Sec: 15 Unit: L
Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 6/21/94
Monitor Well: N/A

Excavation: 8/12/94
Re-Excavation: N/A

Soil Boring: 8/18/95
Geoprobe: N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe which was 12 feet below ground surface (bgs). PID field screening indicated soils to be below 100 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated BTEX compounds were below standards, but TPH was above standards at 106 mg/kg. A test boring was advanced in the center of the initial excavation to determine the extent of the impact to soils. The soil lithology consisted of brown silty sand. A soil sample was collected for BTEX and TPH analysis at 18-20 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 25.1 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.
- 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 with time with minimal risk to the environment.

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

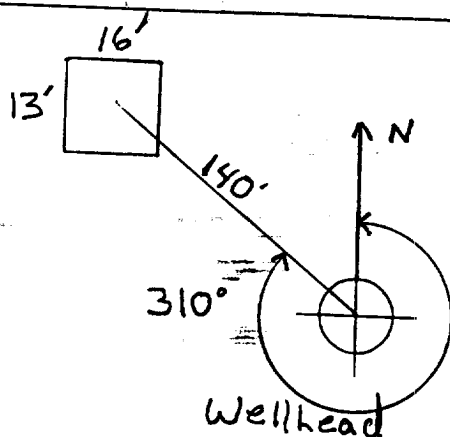
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>70770</u> Location: <u>Ballard #10</u> Operator #: <u>2999</u> Operator Name: <u>Meridian P/L</u> District: <u>Ballard</u> Coordinates: Letter: <u>L</u> Section <u>15</u> Township: <u>26W</u> Range: <u>9W</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>6-21-94</u> Area: <u>11</u> Run: <u>91</u>	
	NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2) Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____ Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (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? <input type="checkbox"/> (1) YES (20 points) <input type="checkbox"/> (2) NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3) Name of Surface Water Body <u>Reed Canyon Wash</u> (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100' TOTAL HAZARD RANKING SCORE: <u>20</u> POINTS	
REMARKS	Remarks : <u>One pit on location. Dry</u> <u>Inside V.Z. on Redline & Topo</u>	

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DIST. 3

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 310 Footage from Wellhead 140
b) Length : 16 Width : 13 Depth : 3



ORIGINAL PIT LOCATION

Remarks :

Photos - 1114

Bobtail

REMARKS

Completed By:

Signature

6-21-74

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	<p>Meter: <u>70770</u> Location: <u>Ballard #10</u></p> <p>Coordinates: Letter: <u>L</u> Section <u>15</u> Township: <u>26W</u> Range: <u>9W</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Date Started : <u>8/12/94</u> Run: <u>11</u> <u>91</u></p>
FIELD OBSERVATIONS	<p>Sample Number(s): <u>KD 209</u></p> <p>Sample Depth: <u>12'</u> Feet</p> <p>Final PID Reading <u>2 ppm</u> PID Reading Depth <u>12'</u> Feet</p> <p style="text-align: center;">Yes No</p> <p>Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet</p>
CLOSURE	<p>Remediation Method :</p> <div style="display: flex; justify-content: space-between;"> <div> <p>Excavation</p> <p>Onsite Bioremediation</p> <p>Backfill Pit Without Excavation</p> </div> <div> <p><input type="checkbox"/> Approx. Cubic Yards <u>0</u></p> <p><input type="checkbox"/></p> <p><input checked="" type="checkbox"/></p> </div> </div> <p>Soil Disposition:</p> <div style="display: flex; justify-content: space-between;"> <div> <p>Envirotech <input type="checkbox"/></p> <p>Other Facility <input type="checkbox"/></p> </div> <div> <p><input type="checkbox"/> Tierra</p> <p>Name: _____</p> </div> </div> <p>Pit Closure Date: <u>8/12/94</u> Pit Closed By: <u>BEE</u></p>
REMARKS	<p>Remarks : <u>Dug test Hole to 12', Took PID Sample, closed pit</u></p> <p>_____</p> <p>_____</p>
	<p>Signature of Specialist: <u>Kenny Dunn</u></p>



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 209	94/5912
MTR CODE SITE NAME:	70770	N/A
SAMPLE DATE TIME (Hrs):	8/12/94	0915
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:	VG	Coarse Brown Sand

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)	106	MG/KG			2.10	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	93.8	%				

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

The Surrogate Recovery was at 94 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached.

DF = Dilution Factor Used

Approved By:

Date:

9/2/94

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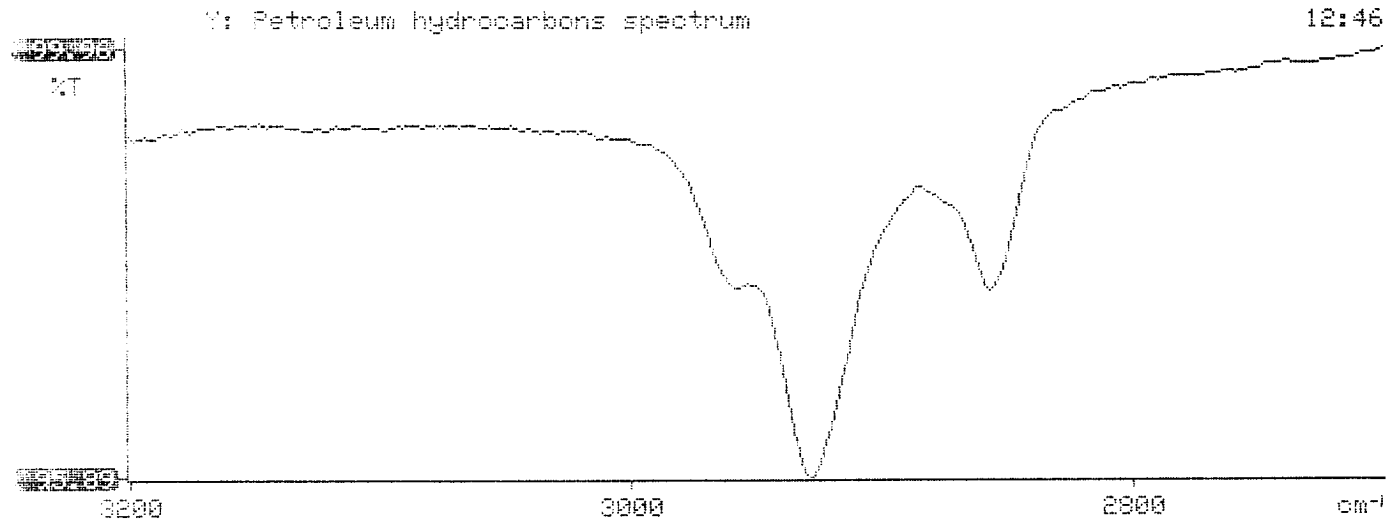
*****
Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil
*****
Perkin-Elmer Model 1600 FT-IR
Analysis Report
*****

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74/08/16 12:46
Sample identification
745912
Initial mass of sample, g
2.100
Volume of sample after extraction, ml
22.000
Petroleum hydrocarbons, ppm
105.626
Net absorbance of hydrocarbons (2930 cm-1)
0.016

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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

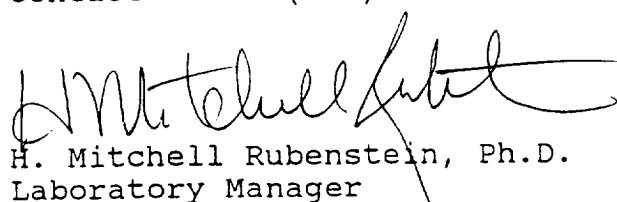
El Paso Natural Gas Company
P.O. Box 4990
Farmington, NM 87499

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
10	945907	NON-AQ	08/11/94	08/17/94	08/19/94	10
11	945912	NON-AQ	08/12/94	08/17/94	08/19/94	1
12	945913	NON-AQ	08/12/94	08/17/94	08/19/94	20
PARAMETER			UNITS	10	11	12
BENZENE			MG/KG	<0.25	<0.025	10
TOLUENE			MG/KG	39	<0.025	110
ETHYLBENZENE			MG/KG	3.0	<0.025	20
TOTAL XYLENES			MG/KG	69	<0.025	190

SURROGATE:

BROMOFLUOROBENZENE (%) 277* 94 350*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmingington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page 1 of 1

JWK26

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location Ballard #10 70770

Well Logged By Jeff W. Kindley
Personnel On-Site G. Sudduth, A. Roberts, H. Kail
Contractors On-Site _____
Client Personnel On-Site _____

Elevation _____
Borehole Location T24W, R9N, S15, W
GWL Depth _____
Logged By Jeff W. Kindley
Drilled By G. Sudduth
Date/Time Started 08/18/95 0915
Date/Time Completed 08/18/95 1806

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	SAHS	
0				Backfill material to 12'						
5										
10										
15										
20	1	18 to 20'	18 2.0	sm, br silty sand, dry, dense, non plastic, no odor. Boring terminated at 20'				0%		0945 35 blows counts per foot.
25										
30										
35										
40										

Comments:

Sample collected at 18 to 20' and Submitted for BTEX, TPH.
Brought to surface

Geologist Signature

Jeffery Kindley



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID <u>2002195</u> <u>JWK 286</u>	Lab ID <u>2002195</u> <u>9472820</u>
MTR CODE SITE NAME:	<u>70770</u>	<u>Ballard #10</u>
SAMPLE DATE TIME (Hrs):	<u>08-18-95</u>	<u>11:25</u> ^{PM} <u>09:45</u>
PROJECT:	<u>Phase II Drilling</u>	
DATE OF TPH EXT. ANAL.:	<u>8/21/95</u>	<u>8-21-95</u>
DATE OF BTEX EXT. ANAL.:	<u>8/23/95</u>	<u>8/23/95</u>
TYPE DESCRIPTION:	<u>VG</u>	<u>Brown Sand & clay</u>

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)	<u>25.1</u> ^{ppm}	MG/KG			<u>2.01</u>	<u>28</u>
HEADSPACE PID	<u>0</u>	PPM				
PERCENT SOLIDS	<u>91.6</u>	%				

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

The Surrogate Recovery was at 106% for this sample All QA/QC was acceptable.
Narrative: _____

DF = Dilution Factor Used

Approved By: JP

Date: 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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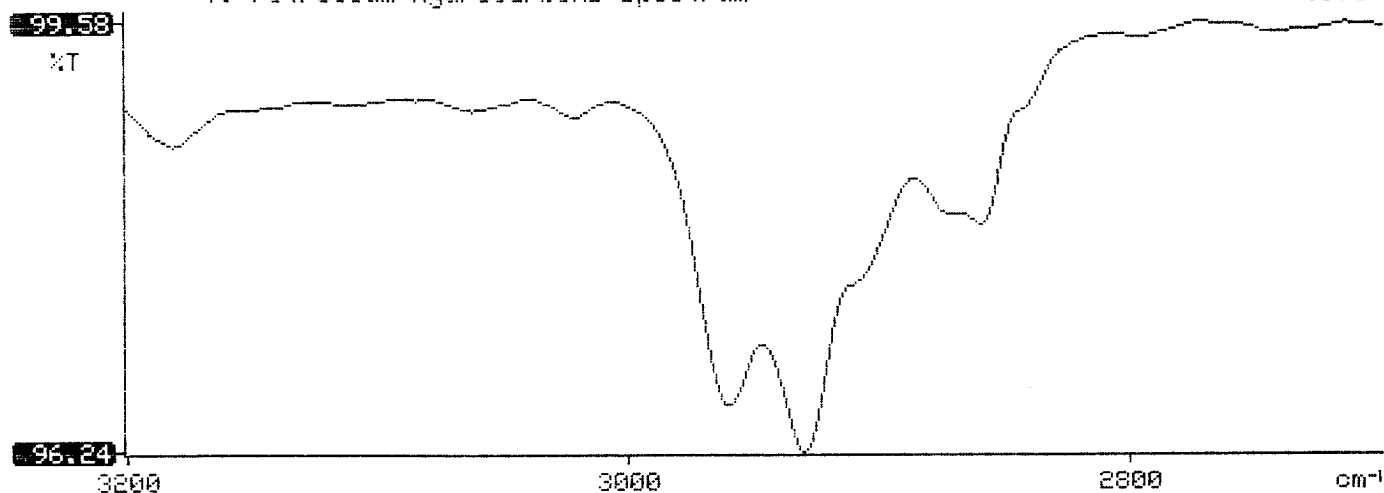
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*
* 95/08/21 15:28
*
* Sample identification
* 947280
*
* Initial mass of sample, g
* 2.010
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 25.074
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.013
*
*
*

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Y: Petroleum hydrocarbons spectrum

15:29



BTEX SOIL SAMPLE WORKSHEET

File	:	947280	Date Printed	:	8/25/95
Soil Mass (g)	:	4.95	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20202

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.505
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.505
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.505
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.010
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.505
			Total xylenes (mg/Kg):	0.000 1.515
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082395-1.017
 Method : C:\LABQUEST\METHODS\9001.MET
 Sample ID : 947280,4.95G,100U
 Acquired : Aug 24, 1995 02:04:12
 Printed : Aug 24, 1995 02:30:25
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.440	0	0.0000
a,a,a TFT	4.920	4749485	91.3192
TOLUENE	6.743	82970	-0.5179
ETHYLBENZENE	10.513	74365	-0.3055
M & P XYLENE	10.857	75369	-4.9546
O XYLENE	11.943	0	0.0000
BFB	13.420	76170704	105.7431

