AUL 1 7 1998

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Hammond No. 5 Meter/Line ID - 70084

Legals - Twn: 27.

NMOCD Hazard Ranking: 40

Operator: Western Oil and Minerals

SITE DETAILS

Sec: 25 Unit: G

Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 5/19/94

Excavation: 6/3/94

Soil Boring: 9/21/95

Re-Excavation: N/A -

Geoprobe: N/A

CONCLUSIONS

Monitor Well: N/A

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 428 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at 37 mg/kg, and TPH was above standards at 834 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. A gray sand clay was encountered at 12 feet bgs and continued to approximately 17 feet bgs. At 20 feet bgs a light brown fine grained sand was encountered and continued to the termination of the boring at 26 feet bgs. A soil sample was collected for BTEX and TPH analysis at 25-26 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH present at 15.6 mg/kg.

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 13 feet beneath 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

2)	GENERAL	Meter: 70084 Location: HAMMOND ND 5 Operator #: 9615 Operator Name: P/L District: Blanco Coordinates: Letter: Section 5 Township: 27 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/19/94 Area: D3 Run: 72									
	SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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) Greater Than 1000 Ft (10 points) Greater Than 200 Ft (20 points) Greater Than 1000 Ft (10 points) Greater Body Gr									
	REMARKS	Remarks: Redline-Incide, Vula-Tnoide Ipit Will Close. Pit Dry Confluence of Cuerra Llarge Canyons Olantialle									

PHASE I EXCAVATION

FIEL PIT REMEDIATION/CLOSU FORM

GENERAL	Meter: 70084 Location: 4mmond #5 Coordinates: Letter: G Section 25 Township: 27 Range: 8 Or Latitude Longitude Date Started: 6-3-94 Area: 03 Run: 72
FIELD OBSERVATIONS	Sample Number(s): KD 100 Sample Depth: 12' Feet Final PID Reading 428 pr PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
SURE	Remediation Method: Excavation
Clos	Other Facility (2) Name:
PEWARKS	Remarks: Excavated pit to 12', took PIO Sample, Closed pit.
	Signature of Specialist: (SP3191) 04/07/9



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD100	945353
MTR CODE SITE NAME:	70084	N/A
SAMPLE DATE TIME (Hrs):	6-2-94	1320
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6-6-94	6694
DATE OF BTEX EXT. ANAL.:	6/9/94	6/10/94
TYPE DESCRIPTION:	VC	Brown/Avey Sand & Clay
		701

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
1 All Piller			DF	α	M(g)	V(ml)	
BENZENE	(0.50	MG/KG	20				
TOLUENE	L0.50	MG/KG	20				
ETHYL BENZENE	2.5	MG/KG	20				
TOTAL XYLENES	3.3	MG/KG	20				
TOTAL BTEX	37	MG/KG					
TPH (418.1)	830 834	AWOTHO FILL MG/KG			2.05	28	
HEADSPACE PID	428	PPM					
PERCENT SOLIDS	92.0	%	·				

The Surrogate Recovery was at 188 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. Surrogate recovery was outsided.

DF = Dilution Factor Used

Approved By:

THE is by EPA Method 418.1 and BTEX is by EPA Method 8020
Was acceptable.

The Surrogate Recovery was at 188 % for this sample All QA/QC was acceptable.

The Surrogate Recovery was at 188 % for this sample All QA/QC was acceptable.

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Gil and Grease and Petroleum Hydrocarbons
                                         ģ
             in Water and Soil
                                         *
         Perkin-Elmer Model 1600 FT-IR
94/06/06 14:34
: Sample identification
945353
 Initial mass of sample, g
2.050
  Volume of sample after extraction, ml
22,000
 Petroleum hydrocarbons, ppm
k Net absorbance of hydrocarbons (2930 cm-1)
0.105
                                                    14:35
       Y: Petroleum hydrocarbons spectrum
2T
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3999

2800

om⁻¹

3299



ATI I.D. 406331

June 15, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/08/94, 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.

Letitia Krakowski, Ph.D.

Project Manager

MR:jd

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 406331

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	945352	NON-AQ	06/03/94	06/09/94	06/10/94	25
11	945353	NON-AQ	06/03/94	06/09/94	06/10/94	20
12	945359	NON-AQ	06/06/94	06/09/94	06/11/94	1
PARAME	TER		UNITS	10	11	12
BENZEN	E	_	MG/KG	<0.62	<0.50	<0.025
TOLUEN	E		MG/KG	<0.62	<0.50	<0.025
ETHYLB	ENZENE		MG/KG	2.5	2.5	<0.025
TOTAL	XYLENES		MG/KG	32	33	0.066
SURROG	ATE:					

193* 188* 99 BROMOFLUOROBENZENE (%)

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(606) 326-2262 FAX (606) 326-2388

Date/Time Completed

Elevation

Borehole Location QG-S25-T27-R8

GWL Depth

Logged By

Drilled By

Date/Time Started

Borehole #		BH-1	
Well #			
Page	1	of /	

 Project Name
 EPNG PITS

 Project Number
 14509
 Phase 600.77

 Project Location
 Hammand No. 5
 70084

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4 1, D, H5A
Air Monitoring Method PLO, CGT

			Sample			Depth				
Depth	Sample	Sample	Type &	Sample Description	uscs	Lithology	Air	Monitor	7A + <u>5</u> + FS	Drilling Conditions
(Feet)	Number	interval	Recovery	Classification System: USCS	Symbol	Change	U	nits: NO	±_5_	& Blow Counts
<u> </u>			(inches)			(feet)	BZ	BH	H-S	
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Comments: (M(119(8-26)) Sent to lab (BTEX, TPH). BH grouted to surface.

Sample bagged & iced prior to containerizing

Geologist Signature

5/18/95\DRILLOG1.XLS



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

BENZENE ∠ 0.5 MG/KG TOLUENE ∠ 0.5 MG/KG ETHYL BENZENE ∠ 0.5 MG/KG TOTAL XYLENES ∠ 1.5 MG/KG TOTAL BTEX ∠ 3 MG/KG TPH (418.1) /5.6 MG/KG PPM A.0 A PERCENT SOLIDS 73.7 %		SAMPLE	DENTIFICA	TION			
SAMPLE NUMBER: CMC 19 947515		Field	ID		Lab ID		
MTR CODE SITE NAME: 70084	SAMPLE NUMBER:			9475	7/5		
SAMPLE DATE TIME (Hrs):						5	
PROJECT: Phase II briling DATE OF THE EXT. ANAL.: 9/22/95 9/25/95 TYPE DESCRIPTION: VG Light From 7 Family Sand 5-lone Field Remarks: RESULTS PARAMETER RESULT UNITS OUALIFIERS DF Q M(g) V(g) BENZENE	·	09-21-95					
DATE OF TPH EXT. ANAL.:	· · · · · · · · · · · · · · · · · · ·	Phase II Or	illing				
TYPE DESCRIPTION: VG Light frown Fand Sand Stone	DATE OF TPH EXT. ANAL.:	9-1	2-95				
RESULTS RESULT UNITS QUALIFIERS DF Q M(g) V(g)	DATE OF BTEX EXT. ANAL.:	9/2	7/95				
RESULTS PARAMETER RESULT UNITS QUALIFIERS DF Q M(g) V(g) BENZENE Z 0.5 MG/KG	TYPE DESCRIPTION:	VG		Light from	n Sand & S	arid Stone	
RESULTS PARAMETER RESULT UNITS QUALIFIERS DF Q M(g) V(g) V(g) <td< td=""><td></td><td></td><td></td><td>Ç.</td><td></td><td></td><td></td></td<>				Ç.			
PARAMETER RESULT UNITS QUALIFIERS DF Q M(g) V(g) BENZENE ∠ 0.5 MG/KG	Field Remarks:						
DF Q M(g) V(g)		F	RESULTS				
DF Q M(g) V(g)							
BENZENE ∠ 0.5 MG/KG TOLUENE ∠ 0.5 MG/KG ETHYL BENZENE ∠ 0.5 MG/KG TOTAL XYLENES ∠ 1.5 MG/KG TOTAL BTEX ∠ 3 MG/KG TPH (418.1) 15.6 MG/KG PPM 2.0 2 PERCENT SOLIDS 73.7 %	PARAMETER	RESULT	UNITS	DF			V(ml)
TOLUENE \$\alpha\$.0.5 MG/KG ETHYL BENZENE \$\alpha\$.0.5 MG/KG TOTAL XYLENES \$\alpha\$.1.5 MG/KG TOTAL BTEX \$\alpha\$.3 MG/KG TPH (418.1) \$\alpha\$.6 MG/KG PPM \$\alpha\$.0 \$\alpha\$.0 PERCENT SOLIDS \$\alpha\$.3 %	DENTE TO THE PARTY OF THE PARTY	105	MG/KG				
ETHYL BENZENE \$\langle 0.5 \ \text{MG/KG}\$ TOTAL XYLENES \$\langle 1.5 \ \text{MG/KG}\$ TOTAL BTEX \$\langle 3 \ \text{MG/KG}\$ TPH (418.1) \$\langle 5 \ \text{MG/KG}\$ HEADSPACE PID \$\text{O} \ \text{PPM}\$ PERCENT SOLIDS \$\text{73.7} \text{8}	BENZENE						
TOTAL XYLENES \$\lambda\$ 1.5 MG/KG \$\lambda\$ TOTAL BTEX \$\lambda\$ 3 MG/KG \$\lambda\$.0 \$\lambda\$.0 <td>TOLUENE</td> <td></td> <td>MG/KG_</td> <td></td> <td></td> <td></td> <td></td>	TOLUENE		MG/KG_				
TOTAL BTEX \$\delta \sigma	ETHYL BENZENE	< 0.5	MG/KG				
TOTAL BTEX ∠ 3 MG/KG TPH (418.1) 15.6 MG/KG 2.0 2 HEADSPACE PID 0 PPM PERCENT SOLIDS 73.7 %	TOTAL XYLENES	4 1.5	MG/KG			_	ļ
TPH (418.1) 15.6 MG/KG 2.0 2 HEADSPACE PID 0 PPM PERCENT SOLIDS 73.7 %		43	MG/KG				
HEADSPACE PID O PPM PERCENT SOLIDS 73.7 %		15,6	MG/KG			2.0	28
PERCENT SOLIDS 73.7 %		0	PPM				
		73.8	%				
TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 The Surrogate Recovery was at 98% for this sample All QA/QC was acceptable. Narrative:	The Surrogate Recovery was at					otable.	

Approved By: __

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Test Method for
    Oil and Grease and Petroleum Hydrocarbons
              in Water and Soil
                                           祟
         Perkin-Elmer Model 1600 FT-IR
               Analysis Report
14:45
95/09/22
_{\#}^{4r}
  Sample identification
947515
  Initial mass of sample, g
2.000
  Volume of sample after extraction, ml
紫
  Petroleum hydrocarbons, ppm
15.601
 Net absorbance of hydrocarbons (2930 cm-1)
0.012
                                                       14:45
        Y: Petroleum hydrocarbons spectrum
100-34
 ∴T
```

3000

2899

 cm^{-1}

3299

BTEX SOIL SAMPLE WORKSHEET

File	e :	947515	Date Printed : 9/26/95
Soil Mas	s (g):	4.95	Multiplier (L/g) : 0.00101
Extraction vo		10	DF (Analytical) : 200
Shot Volum	•	50	DF (Report) : 0.20202
			Det. Limi
Benzene	(ug/L) :	0.15	Benzene (mg/Kg): 0.030 0.505
Toluene	(ug/L) :	0.17	Toluene (mg/Kg): 0.034 0.509
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg): 0.000 0.509
p & m-xylene	(ug/L) :	0.58	p & m-xylene (mg/Kg): 0.117 1.010
o-xylene	(ug/L) :	0.15	o-xylene (mg/Kg): 0.030 0.50
•			Total xylenes (mg/Kg): 0.147 1.51
			Total BTEX (mg/Kg): 0.212

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092595-0.006 Method : C:\LABQUEST\METHODS\9000.MET

Sample ID : 947515,4.95G,50U Acquired : Sep 25, 1995 14:44:57 Printed : Sep 25, 1995 15:15:21

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.170	56840	0.1519
a,a,a-TFT	10.503	8945623	102.2523
TOLUENE	12.917	61911	0.1701
ETHYLBENZENE	17.170	0	0.0000
M, P-XYLENES	17.613	230731	0.5751
O-XYLENE	18.780	50065	0.1529
BFB	19.860	53414960	97.9945

