EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR
DEC 21 1998

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

GIOMI B#1 FT & PC
Meter/Line ID - 75836

SITE DETAILS

Legals - Twn: 30 **Rng:** 09 **Sec:** 33 **Unit:** D
NMOCD Hazard Ranking: 30 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/02/94**

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 naturally degrade in time with minimal risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75836 87239 Location: GIOMI B #1 FT AND PC

Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD

Coordinates: Letter: D Section 33 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Visit Date: 4.14.94 Run: 10 83

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
- Inside Vulnerable Zone ☒
- Outside ☐

Land Type:
- BLM ☒
- State ☐
- Fee ☐
- Indian _____

Depth to Groundwater
- Less Than 50 Feet (20 points) ☐
- 50 Ft to 99 Ft (10 points) ☐
- 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? ☐ YES (20 points) ☒ 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) ☒

Name of Surface Water Body _____

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 0 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS WET. DO NOT KNOW WHY THIS LOCATION IS IN THE WATER VULNERABLE ZONE.

ORIGINAL PIT LOCATION

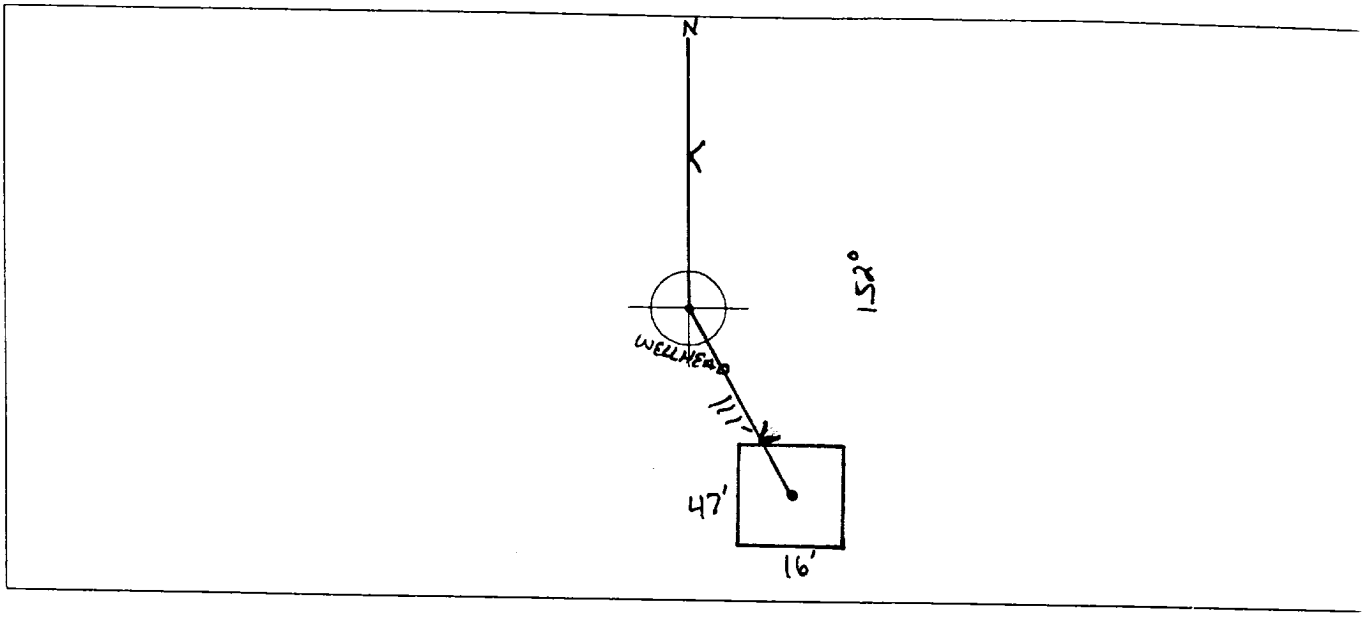
ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 152° Footage to Wellhead 111'

b) Degrees from North _____ Footage to Dogleg _____

Dogleg Name _____

c) Length : 47' Width : 16' Depth : 2'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 1:04 P.M.

END DUMP

Completed By:

Robert Thompson
Signature

4.14.94
Date

4-24-94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75836 / 82239 Location: GIOM1 B #1 FT/PC

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: ___ Section ___ Township: ___ Range: ___

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: ___ Other: _____

Site Assessment Date: _____ Area: 10 Run: 83

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)

Inside ☐ (1)
Outside ☐ (2)

Land Type:

BLM ☐ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☒ (1)
50 Ft to 99 Ft (10 points) ☐ (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 MANSFIELD CANYON

(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 : _____

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75836 87239 Location: GLOMI B#1 FT/PC

Coordinates: Letter: D Section 33 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-2-94 Area: 10 Run: 83

FIELD OBSERVATIONS

Sample Number(s): 945060 KP#13 _____ _____ _____

Sample Depth: 8' Feet

Final PID Reading 300 PID Reading Depth 8' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 105

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 5-2-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some Line Markers Around Pit. Pit is wet. grey looking like shell. And some Black Soil 8' Hit Rock Double Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

30

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 13	945060
MTR CODE | SITE NAME:	75836 | 87239	N/A
SAMPLE DATE | TIME (Hrs):	5/2/94	1320
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5/5/94	5/5/94
DATE OF BTEX EXT. | ANAL.:	5/9/94	5/13/94
TYPE | DESCRIPTION:	VC	Grey Sand & Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.62	MG/KG	25			
TOLUENE	<0.62	MG/KG	25			
ETHYL BENZENE	5.9	MG/KG	25			
TOTAL XYLENES	71	MG/KG	25			
TOTAL BTEX	78	MG/KG				
TPH (418.1)	~~2185~~ 2190 (std 5/17/94)	MG/KG			2.11	28
HEADSPACE PID	300	PPM				
PERCENT SOLIDS	87.0	%				

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

The Surrogate Recovery was at 73 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached. ~~Surrogate recovery was outside ATI QC limits due to matrix interference.~~ std 6/24/94.

DF = Dilution Factor Used

Approved By: John Fowler Date: 7/14/94

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

[illegible] 12:57

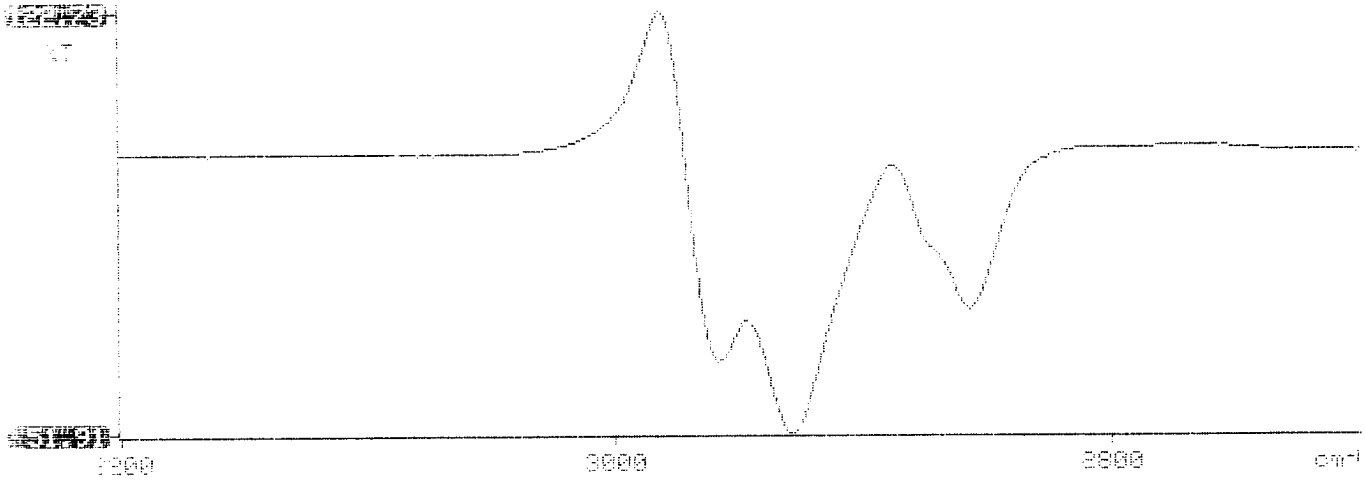
Sample Identification
[illegible]

Initial mass of sample, g
[illegible]

Volume of sample after extraction, ml
[illegible]

Petroleum hydrocarbons, ppm
[illegible]
Net absorbance of hydrocarbons (2930 cm-1)
[illegible]

Y: Petroleum Hydrocarbons spectrum 13:09

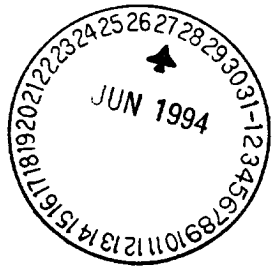


Analytical Technologies, Inc.

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

ATI I.D. **405331**

June 24, 1994



El Paso Natural Gas Company
770 W. Navajo
Farmington, NM 87401

Project Name/Number: PIT PROJECT 24324

Attention: John Lambdin

On **05/06/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** and **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.

Upon arrival, it was noted that sample 945055 contained headspace. The client was notified and the sample was analyzed "as is."

The laboratory was instructed to correct the sampling data for sample 945075 to 05/04/94.

This report is being reissued to correct surrogate recovery on sample 945060. The surrogate was not outside ATI quality control limits.

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

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405331
PROJECT # : 24324
PROJECT NAME : PIT PROJECT

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
11	945059	NON-AQ	05/02/94	05/09/94	05/13/94	1
12	945060	NON-AQ	05/02/94	05/09/94	05/13/94	25
13	945061	NON-AQ	05/03/94	05/09/94	05/13/94	25

PARAMETER	UNITS	11	12	13
BENZENE	MG/KG	0.038	<0.62	0.75
TOLUENE	MG/KG	0.18	<0.62	25
ETHYLBENZENE	MG/KG	0.27	5.9	8.3
TOTAL XYLENES	MG/KG	2.2	71	96
SURROGATE:				
BROMOFLUOROBENZENE (%)		115	73	38*

*OUTSIDE QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH1
Well #
Page of

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

Project Name EPNG Pits
Project Number Phase
Project Location Giomi B#1 75830/87239

Elevation
Borehole Location
GWL Depth
Logged By
Drilled By
Date/Time Started 5/19/95 - 1000
Date/Time Completed 5/19/95 - 1200

Well Logged By CM Chance
Personnel On-Site N. Prince, R Cosby
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼ I.D 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: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0				Backfill to 8'						
10	1	10-12	12"	Reddish Br silty Clay, v hard, non plastic, dry, odor			D	10	546/560	1004 Auger Hard
15	2	15-17	12"	Gr silty Clay, v hard, nonplastic, dry, odor			D	10	300/703	1018
20	3	20-22	12"	lt grey Silty clay, v hard, non-plastic, dry odor			D	20	188/669	1027
25	4	25-27	10"	Greenish grey silty clay, v hard, non plastic, dry, odor			D	200	272/83	1037
30	5	30-32	5"	Greenish grey ~~silty sand~~ sandy clay, vf-f sand, hard, nonplastic, dry			D	280	48/570	1052 Refusal @ 31'
				TOB 31'						
35										
40										

Comments: Refusal @ 31'. Hydraulic hose on rig ruptured cmcl

Geologist Signature

Phase II

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	cmc 14	946825
MTR CODE | SITE NAME:	75836 / 87329	N/A
SAMPLE DATE | TIME (Hrs):	5-19-95	1052
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-23-95	5-23-95
DATE OF BTEX EXT. | ANAL.:	5-24-95	5-25-95
TYPE | DESCRIPTION:	VG	Light grey sand stone

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	0.038 ~~0.08~~ 6/7/95	MG/KG	1			
TOTAL BTEX	0.113	MG/KG				
TPH (418.1)	90.0	MG/KG			2.14	28
HEADSPACE PID	510	PPM				
PERCENT SOLIDS	92.3	%				

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

The Surrogate Recovery was at 104 % for this sample All QA/QC was acceptable.

Narrative:

BTEX Results attached

F = Dilution Factor Used

Approved By: John Saunders Date: 6/8/95

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

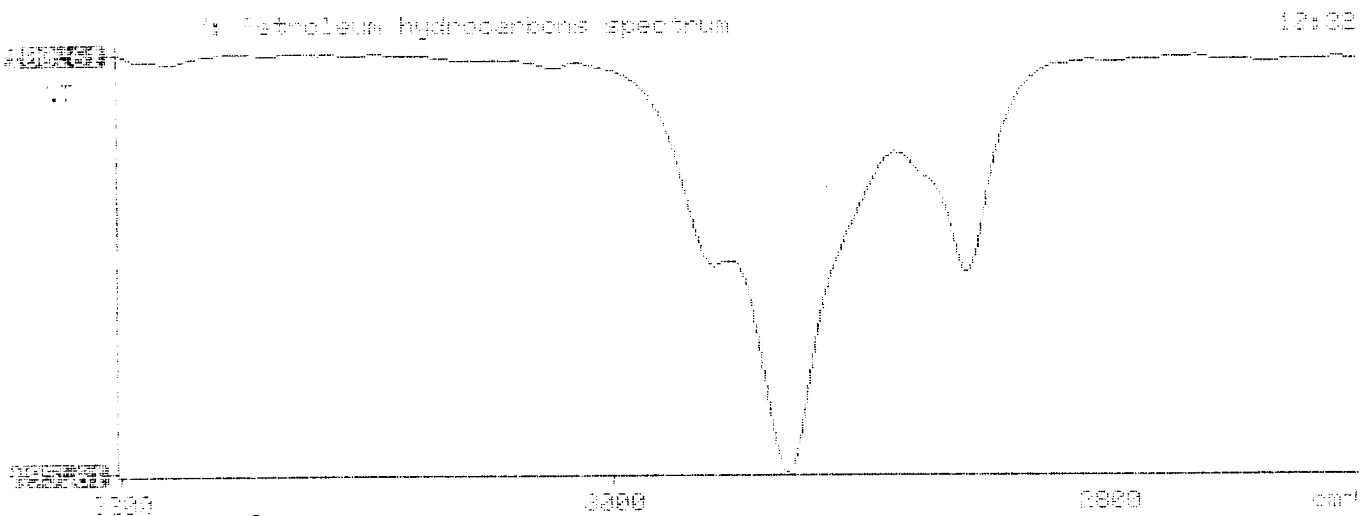
[illegible] [illegible]

Sample identification
[illegible]

Initial mass of sample, g
[illegible]

Volume of sample after extraction, ml
[illegible]

Petroleum hydrocarbons, ppm
[illegible]
[illegible] absorbance of hydrocarbons (2930 cm-1)
[illegible]



Analytical Technologies, Inc.

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

ATI I.D. **505387**

June 2, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/24/95**, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

JUN 1995
Lab
Farmington

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 505387

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946822	NON-AQ	05/18/95	05/24/95	05/25/95	1
02	946824	NON-AQ	05/19/95	05/25/95	05/26/95	20
03	946825	NON-AQ	05/19/95	05/24/95	05/25/95	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.5	<0.025
TOLUENE	MG/KG	<0.025	<0.5	<0.025
ETHYLBENZENE	MG/KG	<0.025	12	<0.025
TOTAL XYLENES	MG/KG	<0.025	150	0.038
SURROGATE:				
BROMOFLUOROBENZENE (%)		97	NA*	104

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION