District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

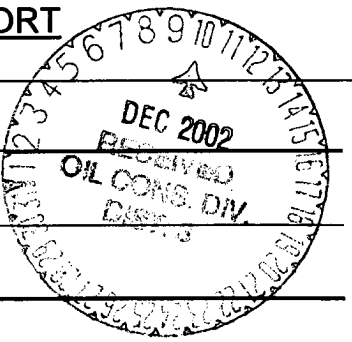
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OK
why did drill

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT



Operator: Amoco Telephone:

Address: 30-039-07124

Facility Or: San Juan 28-7 Unit #86 (PC), Meter 72267
Well Name

Location: Unit or Qtr/Qtr Sec K Sec 7 T 27 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

Land Type: BLM X, State _____, Fee _____ Other _____

Pit Location: Pit dimensions: length 17', width 16', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 130'

Direction from reference: 82 Degrees X East North _____ of _____ West South _____

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet to 99 feet	(10 points)
	Greater than 100 feet	(0 points) 0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	(0 points) 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet	(20 points)
	200 feet to 1000 feet	(10 points)
	Greater than 1000 feet	(0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 07/08/94 Date completed: 07/08/94

Remediation Method: (Check all appropriate sections.) Excavation X Approx. cubic yards 40

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility) Onsite _____ Offsite Tierra

General Description of Remedial Action: Excavated pit to 12', took PID sample, closed pit.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Four walls and center of pit composite

Sample depth 12'

Sample Date 07/08/94 Sample time 11:00

Sample Results

Benzene(ppm) <0.05

Total BTEX(ppm) 1.6

Field headspace(ppm) 243

TPH 578

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

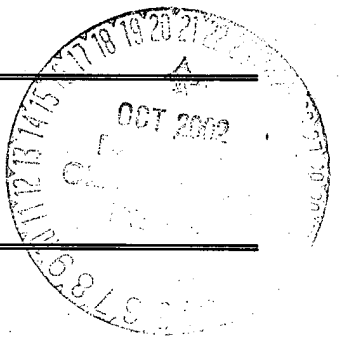
Date 1/8/03 Printed Name Scott T. Pope

Signature Scott T. Pope and Title Senior ENV. Scientist

elpaso

PIT CLOSURE REQUEST

San Juan 28-7 Unit 86 (PC)
Meter/Line ID 72267



SITE DETAILS

Legals - Twn: 27N **Rng:7** **Sec:7** **Unit: K**
NMOCD Hazard Ranking: 0 **Land Type: BLM**
Operator: Amoco **Pit Closure Date: 07/08/94**

RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

The pit was excavated to 12 feet (ft) below ground surface (bgs) to the practical extent of the equipment, and a soil sample was collected for field headspace analysis and laboratory analysis for BTEX and TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 132 ppm; laboratory analysis indicated a benzene concentration of <0.05 mg/kg, a total BTEX concentration of 1.6 mg/kg, and a TPH concentration of 578 mg/kg. The benzene and total BTEX concentrations were below their recommended remediation levels. The TPH concentration was also below its recommended remediation level for the Hazard Ranking Score of 0.

Approximately 40 cubic yards of soil were excavated and hauled to Tierra, a commercial landfarm, for treatment and disposal. The pit was backfilled with clean soil and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 17 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 15-17 ft bgs. Headspace analysis indicated an organic vapor content of 4 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 151 mg/kg. Benzene and total BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score. The TPH concentration also was below its recommended remediation level of 5,000 mg/kg for the Hazard Ranking Score of 0.

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

- The primary source, discharge to the pit, has been removed for over six years.
- The impacted soil was excavated to the practical extent of the equipment and disposed of offsite.
- The excavation was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Backfilling the pit with clean soil eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are incomplete.
- Groundwater was not encountered in the soil boring to 17 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

- TPH concentrations in the soil at 17 ft bgs were about 26% of the concentration at 12 ft bgs and below the closure standard. This strong attenuation with depth indicates that residual hydrocarbons will degrade by natural attenuation with minimal risk to the environment.

- The boring was terminated in a clay making further downward migration unlikely.

ATTACHMENTS
Field Pit Assessment Form
Revised Field Pit Assessment Form
Field Pit Remediation/Closure Form
Phase 2 Soil Boring Log
Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72267 Location: San Juan 28-7 Unit 86 (PC)
Operator #: 0203 Operator Name: Amoco P/L District: Blanco
Coordinates: Letter: K Section 7 Township: 27 Range: 7
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: ✓ Line Drip: ___ Other: _____
Site Assessment Date: 6/4/94 Area: 03 Run: 22

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 Smith 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: 40 **POINTS**

REMARKS

Remarks : Redline & Vuln - Inside
6 pits. Close 2 (1MV & 1 PC) PC Dry

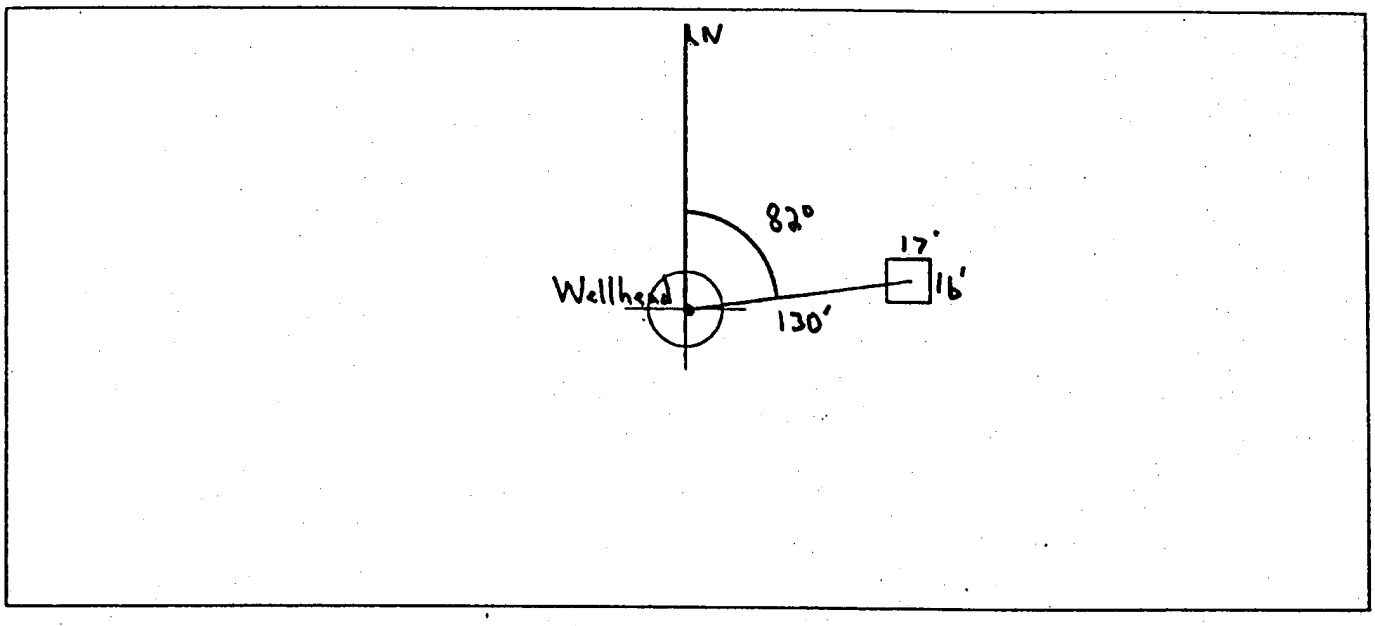
Dried Hole

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 82° Footage from Wellhead 130'

b) Length : 17' Width : 16' Depth : 3'



REMARKS

Remarks :

Pictures @ 1458 (22-25)

Dump Truck

Completed By:

Cory Chase
Signature

6/4/94
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72767 Location: San Juan 28-7 Unit 56 (PC)
Operator #: _____ Operator Name: Amoco P/L District: Blanco
Coordinates: Letter K Section 7 Township: 27 Range: 7
or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
Site Assessment Date: 6/4/94 Area: 03 Run: 32
Revised Date: 9/25/02

SITE ASSESSMENT

NMOCD Zone: (from NMCOD Maps)

Land Type:
Intside [X] (1)
Outside [ ] (2)

BLM [X] (1)
State [ ] (2)
Fee [ ] (3)
Indian _____

Depth to Groundwater
Less than 50 Feet (20 points) [ ] (1)
50 Feet to 99 Feet (10 Points) [ ] (2)
Greater than 100 Feet (0 Points) [X] (3)

Well Protection Area
Is it less than 1000 feet from well, spring or other source of fresh water extraction?
or; Is it less than 200 feet from a private domestic water source?
[ ] YES (20 Points) [X] NO (0 Points)

Horizontal Distance to Surface Water Body
Less than 200 Feet (20 points) [ ] (1)
200 Feet to 1000 Feet (10 Points) [ ] (2)
Greater than 1000 Feet (0 Points) [X] (3)

Name of Surface Water Body Smith Canyon

(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)

Distance to Nearest Ephemeral Stream [ ] (1) < 100 feet (Navajo Pits Only)
[ ] (2) > 100 feet

TOTAL HAZARD RANKING SCORE 0 **POINTS**

REMARKS

Remarks: Revision Based on Re-Assessment of Depth to groundwater using Pelorme Software. Distance to nearest surface water body was also revised.

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 136	945617
MTR CODE | SITE NAME:	72267	N/A
SAMPLE DATE | TIME (Hrs):	7-8-94	1100
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-12-94	7/12/94
DATE OF BTEX EXT. | ANAL.:	7/14/94	7/16/94
TYPE | DESCRIPTION:	VC	Brown Sand & Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.05	MG/KG	2			
TOLUENE	0.11	MG/KG	2			
ETHYL BENZENE	0.14	MG/KG	2			
TOTAL XYLENES	1.3	MG/KG	2			
TOTAL BTEX	1.6	MG/KG				
TPH (418.1)	578	MG/KG			2.16	28
HEADSPACE PID	243	PPM				
PERCENT SOLIDS	93.8	%				

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

The Surrogate Recovery was at 118 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

2.0

8/8/94

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 407346
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	945616	NON-AQ	07/08/94	07/14/94	07/16/94	1
08	945617	NON-AQ	07/08/94	07/14/94	07/16/94	2
09	945618	NON-AQ	07/08/94	07/14/94	07/16/94	5

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.025	<0.05	<0.13
TOLUENE	MG/KG	1.6	0.11	11
ETHYLBENZENE	MG/KG	<0.025	0.14	3.9
TOTAL XYLENES	MG/KG	16	1.3	63
SURROGATE:				
BROMOFLUOROBENZENE (%)		103	118*	72

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72267 Location: San Juan 28-7 Unit 86 (PC)

Coordinates: Letter: K Section 7 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Date Started : 7/8/94 Run: 03 32

FIELD OBSERVATIONS

Sample Number(s): KD 136 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 243 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 40

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☐ ☒ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 7/8/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', Took PID Sample, Closed pit.

Signature of Specialist: Kelly Dawn

(SP3191) 03/16/94

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE
	Pit Closure Project # 24324	Kerry Dean	7/8/94

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS: TPH EPA 418.1	BTEX EPA 8020				502	CONTRACT LABORATORY P. O. NUMBER / REMARKS
34 5617	7/8/94	1100	soil	KD 136	1	VC	X	X				122	
34 5618	7/8/94	1330	soil	KD 137	1	VC	X	X				123	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Kerry Dean	7/8/94 1620	Brenda Liss	Brenda Liss	7/11/94 0940	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
					Kim Kinsey

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565A (Rev. 03-94)

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

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

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location San Juan 28-7 Unit 86 72267

Elevation
Borehole Location QK- S7 - T27- R7
GWL Depth
Logged By CM CHANCE
Drilled By CMC 9/7/95 ~~K Padilla~~ S. Snider
Date/Time Started 9/7/95 - 0940
Date/Time Completed 9/7/95 - 1000

Well Logged By CM Chance
Personnel On-Site CMC 9/7/95 ~~K Padilla~~ D Roberts, H. Keil
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 BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	4"	Br sandy CLAY, vf sand, soft, dry			0	2	7/4	0944 hrs
				TOB 17'						
20										
25										
30										
35										
40										

Comments: CMC 102 (15-17') sent to lab (BTEX, TPH). BH grouted to surface
Sample bagged & iced prior to containerization

Geologist Signature Cmc Chance

El Paso Natural Gas Company

Phone II Billing

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (Signature) Cory Chance — DATE: 9/7/95

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID		PID HS ppm	SEQUENCE #	REMARKS
947411	9/7/95	0944	Soil	CMC102	1	VG	✓	✓			4	96	Bagged & Iced 15-17' San Juan 28-7 Unit 86 72267
947412		1026		CMC103	1	VG	✓	✓			9	97	Bagged & Iced 25-27 San Juan 28-7 Unit 86 72268
947413		1202		CMC104	1	VG	✓	✓			18	98	20-20.5 Rincon Unit #67 71447
947414		1335		CMC105	1	VG	✓	✓			1102	99	32-32.5 Rincon Unit #70 71580
947415		1438		CMC106	1	VG	✓	✓			16	100	Bagged & Iced 25-27 Rincon Unit #68 71579
947416		1438		CMC107	1	D	✓	✓			16	100	DUP "
947417		1450		CMC108	1	B	✓	✓			NA	100	Field Blank "
947418	↓	1522	↓	CMC109	1	VG	✓	✓			4	101	15-17' Rincon Unit 37 70969
947419	9/7/95	1607	soil	CMC110	1	VG	✓	✓			18	102	24-25 Rincon Unit 39 70957
									Cory	9/7/95			

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Cory Chance	9/7/95 1830			9/8/95 9:35	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565 A (Rev. 05-94)

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:	CMC102	947411
MTR CODE | SITE NAME:	72267	San Juan 28-7 Unit 86
SAMPLE DATE | TIME (Hrs):	09/07/95	0944
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-8-95	
DATE OF BTEX EXT. | ANAL.:	9/8/95	9/11/95
TYPE | DESCRIPTION:	VG	DARK BROWN SAND & CLAY

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)
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)	151	MG/KG			2.03	28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	92.1	%				

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

The Surrogate Recovery was at 83% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

ND

9-12-95

BTEX SOIL SAMPLE WORKSHEET

File	947411	Date Printed	9/12/95
Soil Mass (g)	5.01	Multiplier (L/g)	0.00100
Extraction vol. (mL)	20	DF (Analytical)	200
Shot Volume (uL)	100	DF (Report)	0.19960

			Det. Limit
Benzene (ug/L)	0.00	Benzene (mg/Kg):	**0.000** 0.499
Toluene (ug/L)	0.00	Toluene (mg/Kg):	**0.000** 0.499
Ethylbenzene (ug/L)	0.00	Ethylbenzene (mg/Kg):	**0.000** 0.499
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000 0.998
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000 0.499
		Total xylenes (mg/Kg):	**0.000** 1.497
		Total BTEX (mg/Kg):	**0.000**