

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

*Risk Exceeds standards
plume extent
TPH-131*

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: Unocal 30-039-06994 Telephone: _____

Address: _____

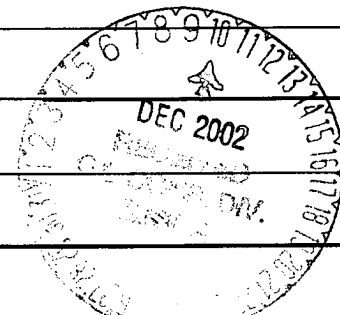
Facility Or: Rincon Unit #66, Meter 71446

Well Name _____

Location: Unit or Qtr/Qtr Sec H Sec 22 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 13', width 13', depth 0'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 75'

Direction from reference: 145 Degrees X East North _____
of _____ West South _____

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points) <u>20</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes	(20 points)
(Less than 200 feet from a private	No	(0 points) <u>0</u>
domestic water source, or; less than		
1000 feet from all other water sources.)		

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 12/01/94 Date completed: 12/01/94

Remediation Method: Excavation Approx. cubic yards 50

(Check all appropriate sections.)

Landfarmed _____ Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: Moved to soil up pit because clean. Dug down soil dirty. Dug 12' sample.

Closed pit. Soil still light gray with a smell.

Ground Water Encountered: No 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 12/02/94 Sample time 11:25

Sample Results

Benzene(ppm) 1.67

Total BTEX(ppm) 471.4

Field headspace(ppm) 245

TPH 4370

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

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

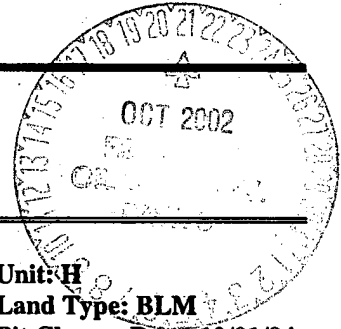
Date 1/8/03
Signature Scott T. Pope

Printed Name Scott T. Pope
and Title Senior ENV. Scientist



PIT CLOSURE REQUEST

**Rincon Unit #66
Meter/Line ID 71446**



SITE DETAILS

**Legals - Twn: 27N
NMOCD Hazard Ranking: 20
Operator: Unocal**

Rng:7

Sec:22

**Unit:H
Land Type: BLM
Pit Closure Date: 12/01/94**

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 245 ppm; laboratory results for BTEX exceeded QA/QC criteria and are considered not representative. The TPH concentration in the sample was 4,370 mg/kg, exceeding its recommended remediation level for the Hazard Ranking Score of 20.

Approximately 50 cubic yards of soil were excavated and hauled to Envirotech, 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 with refusal at 30 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 30-31 ft bgs. Headspace analysis indicated an organic vapor content of 16 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 131 mg/kg. Benzene and total BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score. The TPH concentration slightly exceeded its recommended remediation level of 100 mg/kg for the Hazard Ranking Score of 20.

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 seven years.
- The impacted soil was excavated to the practical extent of the equipment 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 30 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



PIT CLOSURE REQUEST

- The sample from the bottom of the soil boring at 30 ft bgs only slightly exceeded NMOCD's criterion of 100 mg/kg (for a Hazard Ranking Score of 20).
- The TPH concentration at the base of the soil boring is less than 10% of the concentration at 12 ft bgs, indicating that significant downward constituent migration is not occurring. Furthermore, this reduction in concentration with depth indicates that residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to the environment.

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: 71446 Location: Rincon Unit # 6b
 Operator #: _____ Operator Name: UNOCAL P/L District: Blanco
 Coordinates: Letter: H Section 22 Township: 27 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: Line Drip: _____ Other: _____
 Site Assessment Date: 11/14/94 Area: 03 Run: 32

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 Cuscuta Lake
 (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

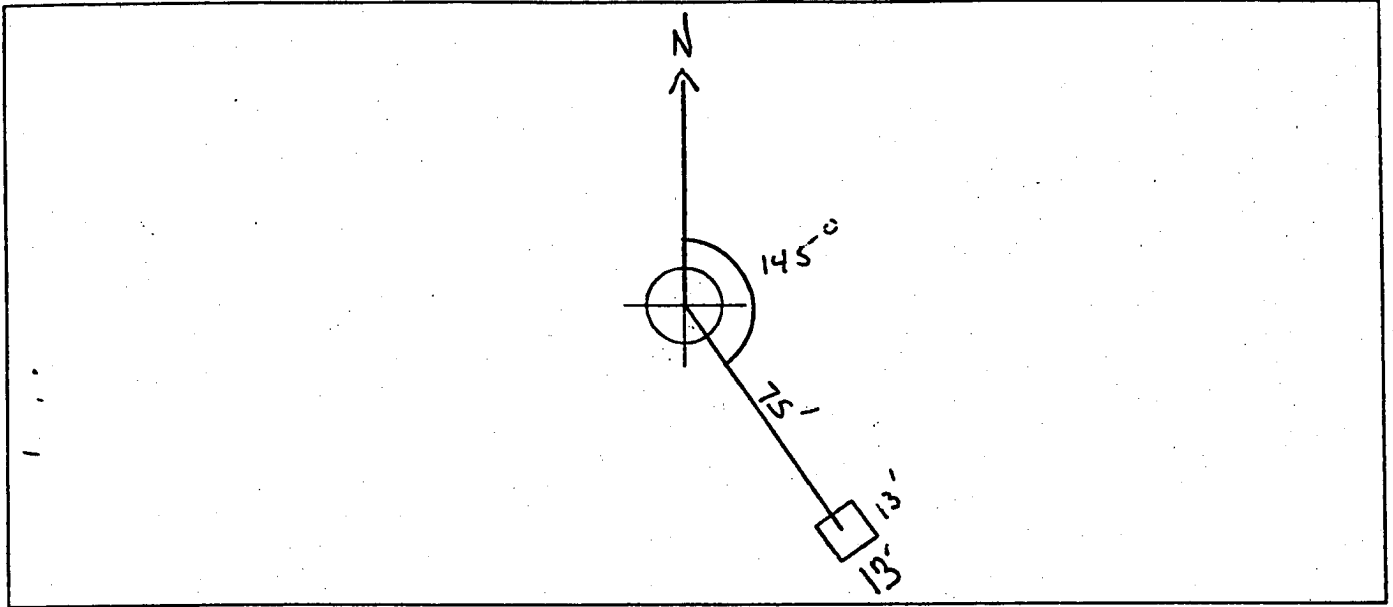
REMARKS

Remarks : Topo - inside Redline inside

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 145° Footage from Wellhead 75'
b) Length : 13' Width : 13' Depth : 0



REMARKS

Remarks :

Pictures 1010 (5-9) ⁸ Roll 1
Pit appears to have been move. All distances and angles are estimated from surface evidence of old pit. Estimated center of pit marked by survey lath.

Completed By:

Scott T. Pope
Signature

11/14/94
Date

**REVISED
FIELD PIT SITE ASSESSMENT FORM**

GENERAL

Meter: 71446 Location: Rincon Unit #66
 Operator #: _____ Operator Name: UNOCAL P/L District: BLAND
 Coordinates: Letter H Section 22 Township: 27 Range: 7
 or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 11/14/94 Area: 03 Run: 32
 Revised Date: 9/25/02

SITE ASSESSMENT

NMOCD Zone: (from NMCOD Maps) **Land Type:**

	BLM	<input checked="" type="checkbox"/> (1)
	State	<input type="checkbox"/> (2)
	Fee	<input type="checkbox"/> (3)
	Indian	_____

Inside (1)
 Outside (2)

Depth to Groundwater

Less than 50 Feet (20 points) (1)
 50 Feet to 99 Feet (10 Points) (2)
 Greater than 100 Feet (0 Points) (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) 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) (3)

Name of Surface Water Body CUZCO LAKE
 (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 20 **POINTS**

REMARKS

Remarks: REVISION BASED ON RE-EVALUATION OF DISTANCE TO NEAREST SURFACE WATER BODY.

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 355	946520
MTR CODE SITE NAME:	71444	N/A
SAMPLE DATE TIME (Hrs):	12-1-94	1125
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-5-94	12-5-94
DATE OF BTEX EXT. ANAL.:	12/5/94	12/6/94, 12/7/94, 12/9/94
TYPE DESCRIPTION:	VC	Dark Gray/Brown sand and clay

REMARKS: BTEX to be done at EPNG and ATI holes.

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	1.67	MG/KG	0.1055		3.79	20	0.53
TOLUENE	30.8	MG/KG	0.2659				1.32
ETHYL BENZENE	29.2	MG/KG					1
TOTAL XYLENES	409.7	MG/KG	0.7539				11.3
TOTAL BTEX	471.4	MG/KG					152
TPH (418.1)	4370	MG/KG			2.04	28	Surrogate %
HEADSPACE PID	245	PPM					Dilution Factor
PERCENT SOLIDS	85.9	%					20

OL

0.53

1.32

1

11.3

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

The Surrogate Recovery was at 197.6% for this samp All QA/QC was acceptable.

NOTE: BFB coeluted
Benzene estimated
ATI Results attached. * Surrogate Recovery not obtainable due to sample dilution

DF = Dilution Factor Used

Approved By: [Signature] Date: 12/27/94

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 412325
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946518	NON-AQ	12/01/94	12/08/94	12/12/94	5
08	946519	NON-AQ	12/01/94	12/08/94	12/09/94	1
09	946520	NON-AQ	12/01/94	12/08/94	12/12/94	20

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<0.13	<0.025	<0.50
TOLUENE	MG/KG	<0.13	0.05	19
ETHYLBENZENE	MG/KG	0.61	<0.025	12
TOTAL XYLENES	MG/KG	6.4	0.03	120

SURROGATE:

BROMOFLUOROBENZENE (%) 99 97 *

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 71446 Location: RINCON UNIT # 66
 Coordinates: Letter: H Section 22 Township: 27 Range: 2
 Or Latitude _____ Longitude _____
 Date Started : 12-1-94 Run: 03 32

FIELD OBSERVATIONS

Sample Number(s): KF 355
 Sample Depth: 12' Feet
 Final PID Reading 245 PID Reading Depth 12 Feet
 Yes No
 Groundwater Encountered Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation Approx. Cubic Yards 50
 Onsite Bioremediation
 Backfill Pit Without Excavation

Soil Disposition:
 Envirotech Tierra
 Other Facility Name: _____

Pit Closure Date: 12-1-94 Pit Closed By: B. EF

REMARKS

Remarks : moved to soil of pit because clean dug down soil
dirty. dug 12 sample. closed pit. soil still light grey
with a smell.

Signature of Specialist: Kelly Padilla



CHAIN OF CUSTODY RECORD

CONTRACT LABORATORY P. O. NUMBER

PROJECT NUMBER # 24324
PROJECT NAME Pit Closure Project

SAMPLERS: (Signature) Kelly Padilla
DATE 12-1-94

LABID DATE TIME MATRIX FIELD ID

946517 12-1-94 1050 Soil KP 352

946518 12-1-94 1050 Soil KP 353

946519 12-1-94 1055 Soil KP 354

946520 12-1-94 1125 Soil KP 355

946521 12-1-94 Soil KP 356

TOTAL NUMBERS OF CONTAINERS

SAMPLE TYPE

TPH EPA 418.1

BTEX EPA 8020

LAB PID

SEQUENCE #

REMARKS

HIT SAND STON. AT 5'

320

321

322

12-1-94

REQUESTED ANALYSIS

RECEIVED BY: (Signature)

DATE/TIME 31

RECEIVED BY: (Signature)

DATE/TIME 12-1-94 1800

RECEIVED BY: (Signature)

DATE/TIME

RECEIVED BY: (Signature)

DATE/TIME

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DATE/TIME

RECEIVED BY: (Signature)

REQUESTED TURNAROUND TIME:

ROUTINE RUSH

CARRIER CO.

CHARGE CODE

BILL NO.:

SAMPLE RECEIPT REMARKS

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)

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 Rincon Unit #66 71446

Elevation _____
 Borehole Location QH-S22-T27-R7
 GWL Depth _____
 Logged By CM CHANCE
 Drilled By K Padilla S. Snider
 Date/Time Started 9/8/95-1203
 Date/Time Completed 9/8/95-1315

Well Logged By CM Chance
 Personnel On-Site K Padilla S. Snider P. Roberts
 Contractors On-Site H. Reel
 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			Drilling Conditions & Blow Counts
							Units: PPM	BZ	BH HS	
0				Backfill to 12'						
15	1	15-17	12"	DK grn sandy CLAY, v.f. sand, soft low plastic odor			0	32	897 2400	-1211
20	2	20-22	6"	Reddish Br/Gry mottled CLAY, med stiff, non plastic			12	180	758 1477	-1219
25	3	25-27	8"	AA			0	51	21 139	-1229
30	4	30-31	5"	AA H br SANDSTONE, v.f. sand, poorly cemented TDB31'			0	42	83 16	-1242 -Refusal @ 30' w/ augers

Comments: Refusal @ 30' w/ augers. CM (111 (30-31') sent to lab (BTEX, TPH). BH grouted to surface

Geologist Signature CM Chance



Shirley Diddle

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NAME Pit Closure Project				DATE 9/8/95		FIELD ID CMC111	
PROJECT NUMBER # 24324	SAMPLER'S (Signature) <i>Long Chavez</i>	LAB ID	DATE 9/8/95	TIME 1243	MATRIX SOIL	TOTAL NUMBERS OF CONTAINERS	SAMPLE TYPE
		91429				1	VG ✓
			TPH EPA 418.1		✓		
			BTEX EPA 8020				
			LAB PID				
			SHS				
			PPM				
			SEQUENCE #		103		
			REMARKS		Rincon Vair # 66 7144k		

<i>Long Chavez</i> RELINQUISHED BY: (Signature)	9/8/95	RECEIVED BY: (Signature) <i>Shirley Diddle</i>
	DATE TIME	DATE TIME
<i>Long Chavez</i> RELINQUISHED BY: (Signature)	9/11/95 11:10	RECEIVED BY: (Signature) <i>Shirley Diddle</i>
	DATE TIME	DATE TIME

RELINQUISHED BY: (Signature) *Shirley Diddle* 9/11/95 11:10 RECEIVED BY: (Signature) *Shirley Diddle*

REQUESTED TURNAROUND TIME:
 ROUTINE RUSH
 CARRIER CO.

SAMPLE RECEIPT REMARKS

RESULTS & INVOICES TO:

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

BILL NO.:

CHARGE CODE

505-599-2144

FAX: 505-599-2261



**FIELD SERVICES LABORATORY
ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 111	947429
MTR CODE SITE NAME:	71446	Lincoln Unit #66
SAMPLE DATE TIME (Hrs):	09-08-95	1243
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-11-95	09-11-95
DATE OF BTEX EXT. ANAL.:	9/12/95	9/14/95
TYPE DESCRIPTION:	V6	light brown sand & sand stone

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)	131	MG/KG			2.05	28
HEADSPACE PID	16	PPM				
PERCENT SOLIDS	88.4	%				

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

The Surrogate Recovery was at 92% for this sample All QA/QC was acceptable.
Narrative: _____

DF = Dilution Factor Used

S. J. D.

Date: 9-15-95

BTEX SOIL SAMPLE WORKSHEET

File	:	947429	Date Printed	:	9/15/95
Soil Mass (g)	:	4.98	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20080

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.502
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.502
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.502
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.004
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.502
			Total xylenes (mg/Kg):	0.000 1.506
			Total BTEX (mg/Kg):	0.000