

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
1220 S. St. Francis Dr., Santa Fe, NM 87505

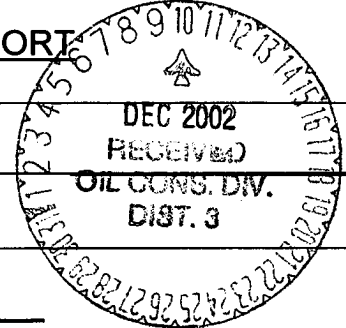
State of New Mexico
Energy Minerals and Natural Resources

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

*Risk
defined
extent
of plume*

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: Central Resources Telephone: _____

Address: 30-039-06569

Facility Or: Canado #3, Meter 70512
Well Name _____

Location: Unit or Qtr/Qtr Sec L Sec 9 T 26 R 7 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 28', width 18', depth 3'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 80'

Direction from reference: 308 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: 08/25/94 Date completed: 08/25/94

Remediation Method: Excavation Approx. cubic yards

(Check all appropriate sections.) Landfarmed Insitu Bioremediation

Other Backfill Pit Without Excavation

Remediation Location: Onsite N/A Offsite N/A

(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: EPNG lines marked. Soil brown. No hydrocarbon odor.

Ground Water Encountered: No X Yes Depth

Final Pit: Sample location Four walls and center of pit composite

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

Sample depth 12'

Sample Date 08/25/94 Sample time 12:15

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 5

TPH 544

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

Signature Scott T. Pope

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



PIT CLOSURE REQUEST

Candado #3
Meter/Line ID - 70512

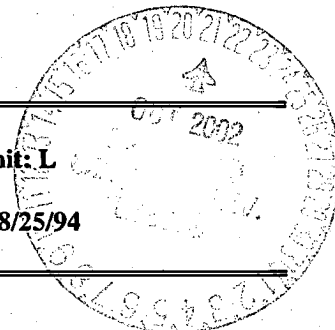
SITE DETAILS

Legals - Twn: 26N
NMOCD Hazard Ranking: 20
Operator: Central Resources

Rng: 07

Sec: 9
Land Type: BLM
Pit Closure Date: 08/25/94

Unit: L



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.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 5 ppm; laboratory analysis indicated a TPH concentration of 544 mg/kg. The TPH concentration exceeded its recommended remediation level for the Hazard Ranking Score of 20.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 22 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 20-22 ft bgs. Headspace analysis indicated an organic vapor content of 10 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 <20 mg/kg. The benzene, total BTEX, and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

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 eight years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring at 22 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

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase 2 soil boring at 22 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.
- Residual hydrocarbons, if any, in the soil will 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: 70-512 Location: Canada #3
 Operator #: 0373 Operator Name: Central Resource B/L District: Ballard
 Coordinates: Letter: L Section 9 Township: 26 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 07/01/94 Area: 07 Run: 62

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

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 Large Wash

(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

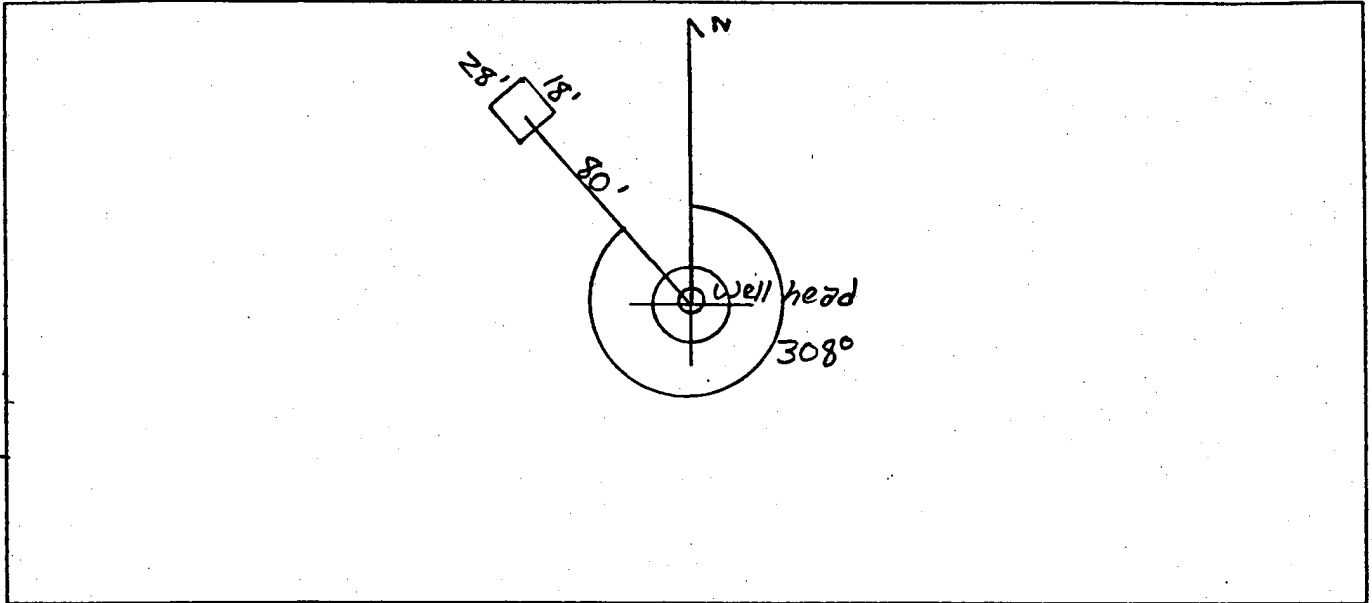
Remarks : Redline Bank - Inside Valuable Zone Type - Outside
One pit, pit is dry, will close one pit

Push In

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 308° Footage from Wellhead 80'
b) Length : 28' Width : 18' Depth : 3'



REMARKS

Remarks :

Pictures @ 1338 (9-12)
Dump Truck

Completed By:

Amah Kelly

Signature

7/1/94

Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 70512 Location: Candado #23 #3
 Operator #: _____ Operator Name: _____ P/L District: _____
 Coordinates: Letter: L Section 9 Township: 26 Range: 7
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____
 Site Assessment Date: 12/19/97 Area: _____ Run: _____

SITE ASSESSMENT

NMOCD Zone:

(From NMOCD
Maps)

Inside

Outside

Land Type:

BLM

State

Fee

Indian

☒ (1)

☐ (2)

☐ (3)

☐ (1)

☒ (2)

Depth to Groundwater

Less Than 50 Feet (20 points)

50 Ft to 99 Ft (10 points)

Greater Than 100 Ft (0 points)

☒ (1)

☐ (2)

☐ (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)

200 Ft to 1000 Ft (10 points)

Greater Than 1000 Ft (0 points)

☐ (1)

☐ (2)

☒ (3)

Name of Surface Water Body _____

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

Distance to Nearest Ephemeral Stream

☐ (1) < 100' (Navajo Pits Only)

☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 POINTS

REMARKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Note: Topo map shows an (ephemeral?) pond < 200' from site. Site visit required to determine if pond is ephemeral or not. Site is > 1000' from Largo Wash



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 287	946012
MTR CODE SITE NAME:	70512	N/A
SAMPLE DATE TIME (Hrs):	8/25/94	1215
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	8-30-94	8/30/94
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VG	Brown fine sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	544	MG/KG			2.01	28
HEADSPACE PID	S	PPM				
PERCENT SOLIDS	93.5	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

9/2/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70512 Location: Cando #3
 Coordinates: Letter: 1 Section 9 Township: 26 Range: 7
 Or Latitude _____ Longitude _____
 Date Started : 8-25-94 Area: 07 Run: 62

FIELD OBSERVATIONS

Sample Number(s): MK287
 Sample Depth: 12' Feet
 Final PID Reading 5 PID Reading Depth 12' Feet
 Yes No
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☐ (1) Approx. Cubic Yards _____
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☒ (3)
 Soil Disposition:
 Envirotech ☐ (1) ☐ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 8-25-94 Pit Closed By: BEI

REMARKS

Remarks : EPNG lines marked Soil Brown NO Hydrocarbon
odor

Signature of Specialist: Morgan Killion



Page _____ of _____

FBI LABORATORY (Rev. 05-94)

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

1000 Monroe Road
Albuquerque, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location CANADO #3 70-512

Elevation

Borehole Location LTR: L S: 9 T: 26 R: 7
GWL Depth NA
Drilled By K. PADILLA
Well Logged By H. BRADBURY
Date Started 8/24/98
Date Completed 8/24/98

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID

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	S/HS	
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				EXCAVATION SAMPLE COLLECTED AT 12'						
15	1	13-17	6"	DR BR SANDY CLAY. FINE SAND, soft, low plasticity, dry	CL		0	0	0 18	0933 hrs
20	2	20-22	6"	DR BR silty CLAY. med stiff med plasticity, dry	CL		0	0	0 10	0940 hrs
25				TOB 22						
30										
35										
40										

Comments:

HAB8 20-22' COLLECTED SENT TO LAB FOR TPH, BTEX
GW NOT ENCOUNTERED BH GROUTED TO SURFACE

Geologist Signature

Holly Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB8	980586
MTR CODE SITE NAME:	70512	Canado #3
SAMPLE DATE TIME (Hrs):	8/24/98	0940
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/28/98	8/28/98
DATE OF BTEX EXT. ANAL.:	8/27/98	8/27/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 20-22'

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 (MOD.8015)	<20	MG/KG				
HEADSPACE PID	10	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 104.2 % for this sample All QA/QC was acceptable.
ative:

DF = Dilution Factor Used

Approved By:

John Fawcett

Date:

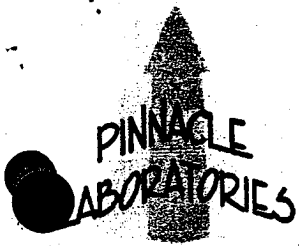
9/14/98



CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE ID : 808083
DATE RECEIVED : 8/28/98
REPORT DATE : 9/9/98

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	980586	NON-AQ	8/24/98
02	980587	NON-AQ	8/24/98
03	980588	NON-AQ	8/24/98



GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
 CLIENT : EL PASO FIELD SERVICES
 PROJECT # : (none)
 PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 808083

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	980586	NON-AQ	8/24/98	8/28/98	8/28/98	1
02	980587	NON-AQ	8/24/98	8/28/98	8/28/98	1
03	980588	NON-AQ	8/24/98	8/28/98	8/28/98	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	< 5.0

CALCULATED SUM:

SURROGATE:

O-TERPHENYL (%)

SURROGATE LIMITS

(66 - 151)

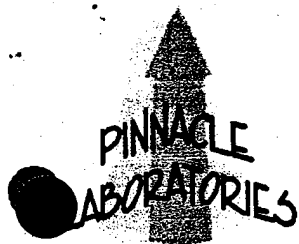
95

105

108

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
BLANK I.D.	: 082898	PINNACLE I.D.	: 808083
CLIENT	: EL PASO FIELD SERVICES	DATE EXTRACTED	: 8/28/98
PROJECT #	: (none)	DATE ANALYZED	: 8/28/98
PROJECT NAME	: PHASE II DRILLING	SAMPLE MATRIX	: NON-AQ

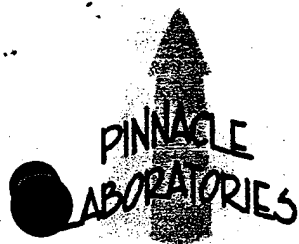
PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

SURROGATE:

TERPHENYL (%)		130
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:

N/A



GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 808083
BLANK I.D.	: 083098	DATE EXTRACTED	: 8/30/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 8/30/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: PHASE II DRILLING		

PARAMETER	UNITS
FUEL HYDROCARBONS	MG/KG
HYDROCARBON RANGE	< 10
HYDROCARBONS QUANTITATED USING	< 5.0
	< 5.0

SURROGATE:

TERPHENYL (%)	88
SURROGATE LIMITS	(80 - 151)

CHEMIST NOTES:

N/A

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Lambdin

COMPANY: El Paso Field Services

ADDRESS: 770 w. Navajo

Farmington, NM 87401

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: Above

COMPANY:

ADDRESS:

Petroleum Hydrocarbons (418.1) TRPH

(MOD.8015) Diesel/Direct Inject

(M8015) Gas/Purge & Trap

8021 (BTEX)/8015 (Gasoline)

8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE

8021 (TCL)

8021 (EDX)

8021 (HALO)

8021 (CUST)

504.1 EDB ☐ / DBCP ☐

8260 (TCL) Volatile Organics

8260 (Full) Volatile Organics

8260 (CUST) Volatile Organics

8260 (Landfill) Volatile Organics

Pesticides /PCB (608/8081)

Herbicides (615/8151)

Base/Neutral/Acid Compounds GC/MS (625/8270)

Polynuclear Aromatics (610/8310)

General Chemistry:

Priority Pollutant Metals (13)

Target Analyte List Metals (23)

RCRA Metals (8)

RCRA Metals by TCLP (Method 1311)

Metals:

NUMBER OF CONTAINERS

PROJ. NO.:		(PUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input checked="" type="checkbox"/>		Signature: <i>Mark Hopper</i> Time: 0810		Signature: Time:	
PROJ. NAME: Phase II Drilling		CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER		Printed Name: <i>Mark Hopper</i> Date: 9/27/88		Printed Name: Date:	
P.O. NO.:		METHANOL PRESERVATION <input type="checkbox"/>		Company: <i>EPFS</i>		Company:	
SHIPPED VIA: Fed Ex		COMMENTS: FIXED FEE <input type="checkbox"/>		Signature: Time:		Signature: Time:	

BTEX SOIL SAMPLE WORKSHEET

File	:	980586	Date Printed	:	8/31/98
Soil Mass (g)	:	5.22	Multiplier (L/g)	:	0.00096
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical)	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report)	:	0.19157

	DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L) : <0.5	Benzene (mg/Kg):	#VALUE!	0.479
Toluene (ug/L) : <0.5	Toluene (mg/Kg):	#VALUE!	0.479
Ethylbenzene (ug/L) : <0.5	Ethylbenzene (mg/Kg):	#VALUE!	0.479
p & m-xylene (ug/L) : <1.0	p & m-xylene (mg/Kg):	#VALUE!	0.958
o-xylene (ug/L) : <0.5	o-xylene (mg/Kg):	#VALUE!	0.479
	Total xylenes (mg/Kg):	#VALUE!	1.437
	Total BTEX (mg/Kg):	#VALUE!	



10-1-98 Approved

CHAIN OF CUSTODY RECORD

10-1-78 Dial.

Page -

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

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

Canary - EPNG Lab

Pink - Field Sampler

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