District I 1625 N. French Dr., Hobbs, NM 88240 District II 2 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 defined the Sa Ofphine (Re

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

(Revised 3/9/94)

# PIT REMEDIATION AND CLOSURE REPORT

		(1) 11 (1)
Operator: Amoco Production Company	Telephone	SON 11 12 13 74 15 75
Address: 30-04	15-07/15	DEC 2002
Facility Or: Florance C#9, Meter 72908 Well Name	8	OIL COMS. DIV.
Location: Unit or Qtr/Qtr Sec_KL_Sec	c <u>30</u> T <u>28</u> R <u>8</u> County_	San Juan
Pit Type: Separator Dehydrator	X Other	
Land Type: BLM X, State	, Fee Other	
Pit Location: Pit dimensions: length <u>26</u> (Attach diagram)	5', width <u>23'</u> , depth <u>3'</u>	-
	X, other	
Footage from reference:	25'	
Direction from reference:	193 Degrees Y Fact North	
Direction from reference: _	195 DegreesXEast North	of
Direction from reference: _		of South
Direction from reference:	West	of t South
Depth To Ground Water (Vertical distance from		of t South (20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal	West Less than 50 feet	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	of t South (20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) ( 0 points)10_
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (10 points) ( 0 points)10_
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) ( 0 points)10_
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points) (10 points) ( 0 points)10_
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) 10  Yes (20 points) No (0 points) 0
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)  Distance To Surface Water:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Less than 200 feet	(20 points) (10 points) (10 points) ( 0 points)10  Yes (20 points) No ( 0 points)0  (20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Less than 200 feet 200 feet to 1000 feet	(20 points) (10 points) (10 points) (10 points) 10  Yes (20 points) No (0 points) 0  (20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)  Distance To Surface Water: (Horizontal distance to perennial	Less than 50 feet 50 feet to 99 feet Greater than 100 feet  Less than 200 feet	(20 points) (10 points) (10 points) ( 0 points)10  Yes (20 points) No ( 0 points)0  (20 points)

Date Remediation Started	l: <u>08/08/94</u> Date completed: <u>08/08/94</u>
Remediation Method: E	Excavation Approx. cubic yards
(Check all appropriate sections.)	Landfarmed Insitu Bioremediation
C	Other Backfill pit without excavation
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite N/A Offsite N/A
	emodial Actions - EDNIC lines marked Dlask soil warms atmos a hydrocourbon adam
General Description of Re	emedial Action: EPNG lines marked. Black soil, very strong hydrocarbon odor.
Ground Water Encountere	ed: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location Four walls and center of pit composite
attach sample results and diagram of sample locations and depths)	Sample depth12'
,	Sample Date08/08/94 Sample time11:45
	Sample Results
	Benzene(ppm) Not reported
	Total BTEX(ppm) Not reported
	Field headspace(ppm) 1524
	TPH2350
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the inf	formation above is true and complete to the best of my knowledge and belief.
Pate 1/8/03	
Signature Sion 7	Printed Name Scott T. Pope and Title Senior ENV. Scientist



## Florance C #9 Meter/Line ID 72908

SITE DETAILS

Legals - Twn: 28N Rng: 8W

NMOCD Hazard Ranking: 10

**Operator: Amoco Production Company** 

Sec: 30

Land Type: BLM

Pit Closure Date: 8/8/9



#### 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) where 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 1,524 ppm; laboratory analysis indicated a TPH concentration 2,350 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

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 32 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 30-32 ft bgs. Headspace analysis indicated an organic vapor content of 12 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, TPH and BTEX 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 32 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 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 II
  soil boring at 30 ft bgs were non-detect, indicating that no significant downward constituent
  migration is occurring.
- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to human health and the environment.

#### **ATTACHMENTS**

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

# **REVISED**FIELD PIT SITE ASSESSMENT FORM

GENER	Meter: 72908 Location: Florance C#9  Operator #: Operator Name: P/L District:  Coordinates: Letter: Section 30 Township: 28 Range: _8  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other:  Site Assessment Date: H 8 98								
,	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Land Type:  BLM  State  (2)  Fee  (3)  Indian								
	Depth to Groundwater  Less Than 50 Feet (20 points)								
SSM	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?								
SITE ASSESSM	(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								
REKS	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical From contered to Blanco Canyon Wash.								

(assess) 12/16/97

# FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72908 Location: Florence C9  Operator #: 0203 Operator Name: AMDCD P/L District: Blance  Coordinates: Letter: L Section 3D Township: 28 Range: 8  Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/16/94 Area: 03 Run: 82							
	Nucces -							
·	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) (X) (2) Greater Than 100 Ft (0 points) (3)							
	Wellhead Protection Area:							
ASSESSMENT	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)							
SITE AS	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 Blanco Canyon (closest)							
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)							
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)							
	$\square (2) > 100'$							
	TOTAL HAZARD RANKING SCORE: POINTS							
2	Remarks: Redline-Outside, Vuln-Outside							
REMARKS	3 pits. Close 1. Pit Dry. (Dehy next to pit but discharging into another							
EM	Pit right next to it)							
ഥ	PUSH-IN							

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72908 Location: Flokarce C#9  Coordinates: Letter: L Section 30 Township: 28 Range: 8  Or Latitude Longitude  Date Started: 8-8-94 Run: 03 82
FIELD OBSERVATIONS	Sample Number(s): ルベン35  Sample Depth: Feet  Final PID Reading PID Reading Depth Feet  Yes No  Groundwater Encountered □ ☑ Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: EPNG lives marked Black send very strong  Hypro Corbon oder  Signature of Specialist: Maryan Killian

(SP3191) 03/16/94

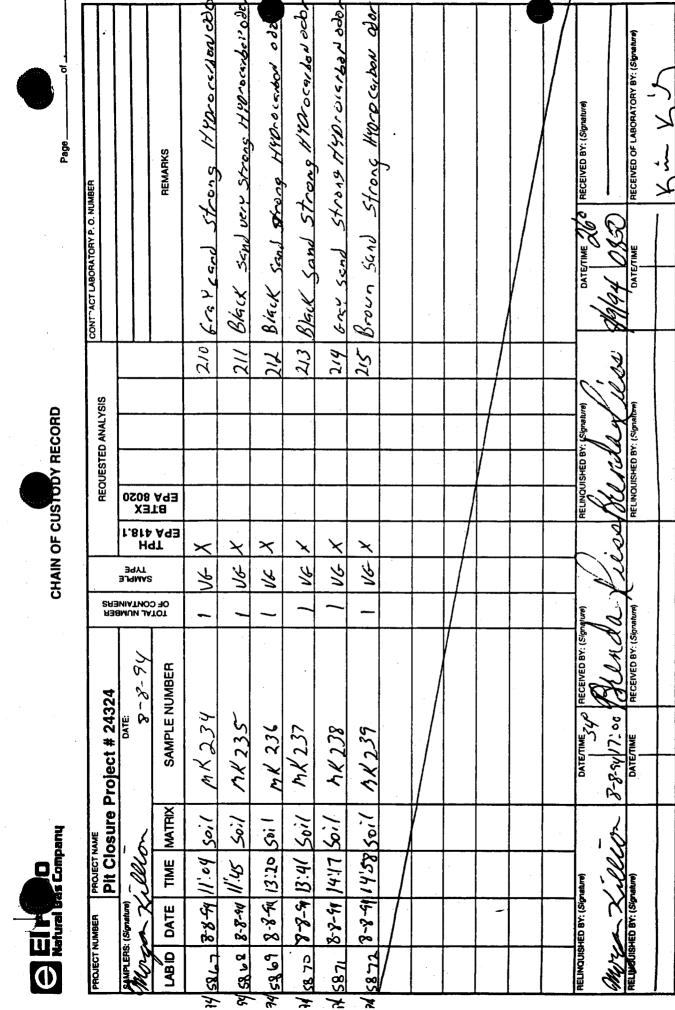


# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

# SAMPLE IDENTIFICATION

	SMINIFEL	IDEITII 107	111011	<del></del>	
	Field	ID		Lab ID	· .
SAMPLE NUMBER:	mk23	35	945	868	
MTR CODE   SITE NAME:	72908			N/A	
SAMPLE DATE   TIME (Hrs):	8-8-94		1	145	
SAMPLED BY:		P	N/A	<del></del>	
ATE OF TPH EXT.   ANAL.:	9-9-6	74	8 ~ 6	9-94	
ATE OF BTEX EXT.   ANAL.:	Ala		NI		
TYPE   DESCRIPTION:	٧G	·	Black.	rurse sand	
REMARKS:					
	l	RESULTS			
PARAMETER	RESULT	UNITS		QUALIFIERS	
			DF	Q	M(g) V(ml)
TPH (418.1)	2350	MG/KG		S. S.	203 28
HEADSPACE PID	1524	PPM			
PERCENT SOLIDS	90.7	%	in the second se		1352
		TPH is by EPA Meth	nod 418.1 ··		
rative:					
= Dilution Factor Used					



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	Canary - EPNG Lab
	rafor
	de
	sting (
	5
	White - Testing Laborator

CHARGE CODE

FAX: 505-599-2261

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

FIELD SERVICES LABORATORY

RESULTS & INVOICES TO:

SAMPLE RECEIPT REMARKS

REQUESTED TURNAROUND TIME:

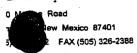
O RUSH

CARRIER CO. C ROUTINE

BILL NO.:

# ECORD OF SUBSURFACE EXPLORATION

LIP SERVICES CORP.



Borehole # BH- Well # NA of \_\_\_\_\_

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10

Project Location FLORANCE C#9 72908

evation
prehole Location LTR: L S: 30 T: 28 R: 8

NL Depth
illed By
ell Logged By
ate Started
ate Completed

NA

K. PADILLA
H. BRADBURY

II / 2 / 18

II / 2 / 18

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)	l	Monitor nits: PP BH	٠,	Drilling Conditions & Blow Counts	
0				Hard Control of the C						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace	
10				Excavation Sample Collected At 12'	•						
15		15-17		DK GR SANDY CLAY. FINE SAND, low plasticity, toose soft ley	1		į	-		1136 hes	
20	2	20.2	24	DK GR SANDY CLAY FINESAND LOW PLASMUTY, SOFT, dry	·		0	25	1		
25	3	25-2	24	DK GR SANDY CLATY, Trave SAND , MOD GlASTICITY, SOFT	-		0	162	130	1150 hRs	
30		30-3	24	DKGR SANDSTONE, FINE SAND, MED CEMENTATION. DRY		·	0	295	44 12	1200 hRs	
35				TOB 32'							
40											

Ints: HABBI 30-32'SENT to lab for TPH, BTEX GW NOT ENCOUNTERED

**Geologist Signature** 

H Bradiny



Page of	BER		REMARKS	9 72908 30-32									RECEIVED BY: (Signature)	RECEIVED OF LABORATORY BY: (Signature)	FIELD SERVICES LABORATORY	FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261
13-28-98 Grad.	CONTRACT LABORATORY P. O. NUMBER			FIORANCE C.								·	11/4/98 1100	/ DATE/TIME 98 1100	FIELD SERVICES EL PASO NATUR	
6-6/ 6-6/ 64-8/		ENCE	PIC *	1261						/			 3		RESULTS & INVOICES FOR	505-599-2144
CORD	REQUESTED ANALYSIS	SI	子の下で	/					Z	/			 Hadille	: (Signature)	\	
CHAIN OF CUSTODY RECORD	EQUESTEC	alq	8 <b>Y</b> 7					7	V				Mereo 80	RELINQUISHED BY: (Signature)	3201	
= cust	<u> </u>	418.1 EX 8020		7			,						MA HELING	RELINC		
AAIN O		SAMPLE TYPE		7/6			7	2/			·		Grandly 11/4/9		ntact	
5	843 843	BMUN JA BNIATMO:	TOT 0.₹0					1		,			sture to the state of the state	vature)	EMARKS -	
Phase II Drill		DATE: 11/2/98	FIELD ID	HABUI									HOLLY (	RECEIVED BY: (Signatura)	SAMPLE RECEIPT REMARKS	CHARGE CODE
ase II	ject	١, ا	TRIX										DATE/TIME   1558	DATE/TIME		
	re Pro	dra	TIME MATRIX	o Soil		/_		•					 86/7			
huedwo	PROJECT NAME PIT Closure Project	Bac	TE TIN	0021 8/2/11	 /	-							Bladling 11/2/98		<u>u</u>	
55 C.	PROJE Pit	EUN	DATE		 _								adfin adding	Signature)	O RUSH	ľ
G Elections Company	PROJECT NUMBER # 24324	SAMPLERS: (SOME BOOKING	LABID	980713									The same of the sa	RELINQUISHED BY: (Signature)	CARRIER CO.	BILL NO.:

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

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



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

# **SAMPLE IDENTIFICATION**

· .	Field ID	Lab ID			
SAMPLE NUMBER:	HAB61	980773			
MTR CODE   SITE NAME:	72908	Florance C #9			
SAMPLE DATE   TIME (Hrs):	11/2/98	1200			
PROJECT:	Phase II Drilling				
DATE OF TPH EXT.   ANAL.:	11/10/98	11/10/98			
DATE OF BTEX EXT.   ANAL.:	11/9/98	11/9/98			
TYPE   DESCRIPTION:	VG	SOIL			

Field Remarks: 30-32'

# **RESULTS**

ESTR. AND	ant pranscribeconangerospiscosperioliscosperioliscos	70 Programme consecutive (1997)				
SOUND TENES	broll -	.:		^·····		
PARAMETER	RESULT	I UNITS	ĎF	OUALIFI O	HS M(g)	 V(ml)
					TAN:I	
BENZENE	< 0.5	MG/KG	<u> </u>			
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	12	PPM				
PERCENT SOLIDS	87.1	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at	102.9	% for this sample	All QA/QC was acceptable
Narrative:		<del>-</del>	•

or = dilution ractor used
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Approved By:

Date: 12/3/48





#### GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

**PINNACLE I.D.: 811025** 

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

INCHE						
			DATE	DATE	DATE	DIL.
CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
980771		NON-AQ	11/2/98	11/10/98	11/10/98	1
980772		NON-AQ	11/2/98	11/10/98	11/12/98	20
980773	·	NON-AQ	11/2/98	11/10/98	11/10/98	1
TER	DET. LIMIT	UN	IITS	01	02	03
DROCARBONS, C6-C10	10	MG	/KG	13	8000	< 10
DROCARBONS, C10-C22	5.0	MG	/KG	160	1300	< 5.0
DROCARBONS, C22-C36	5.0	MG	/KG	120	320	< 5.0
ATED SUM:		•		293	9620	
ATE: ENYL (%) ATE LIMITS	( 66 - 151 )			89	97	99
	CLIENT I.D.  980771  980772  980773  TER  DROCARBONS, C6-C10  DROCARBONS, C10-C22  DROCARBONS, C22-C36  ATED SUM:  ATE:  ENYL (%)	CLIENT I.D.  980771 980772 980773  TER DET. LIMIT DROCARBONS, C6-C10 DROCARBONS, C10-C22 DROCARBONS, C22-C36 ATED SUM:  ATE: ENYL (%)	CLIENT I.D. MATRIX  980771 NON-AQ 980772 NON-AQ 980773 NON-AQ TER DET. LIMIT UN DROCARBONS, C6-C10 10 MG DROCARBONS, C10-C22 5.0 MG DROCARBONS, C22-C36 5.0 MG ATED SUM:  ATE: ENYL (%)	DATE	DATE   DATE   DATE	DATE   DATE

CHEMIST NOTES:

N/A



**PINNACLE I.D.: 811025** 



## GAS CHROMOTOGRAPHY RESULTS

**TEST** 

: EPA 8015 MODIFIED (DIRECT INJECT)

**CLIENT** 

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT	NAME	: PHASE II DRI	LLING					
SAMPLE				DATE	DATE	DATE	DIL.	
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
04	980774		NON-AQ	11/5/98	11/10/98	11/10/98	1	<del>-</del> -
05	980775		NON-AQ	11/5/98	11/10/98	11/10/98	1	
06 ·	980776		NON-AQ	11/5/98	11/10/98	11/10/98	. 1	
PARAMETE	ER	DET. LIMIT	UN	ITS	04	05	06	
FUEL HYD	ROCARBONS, C6-C10	10	MG	/KG	76	< 10	< 10	
FUEL HYD	ROCARBONS, C10-C22	5.0	MG	/KG	96	< 5.0	< 5.0	
FUEL HYD	ROCARBONS, C22-C36	5.0	. MG	/KG	33	< 5.0	< 5.0	
ULAT	ED SUM:				205			
SURROGA'	TE:							
O-TERPHE	NYL (%)				88 .	86	89	
SURROGA"	TE LIMITS	( 66 - 151 )						

**CHEMIST NOTES:** N/A

# **BTEX SOIL SAMPLE WORKSHEET**

File		:	980773	Date Printed :	11/15/98
Soil Mass	(g)	:	5.02	Multiplier (L/g) :	0.00100
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
Shot Volume	(uL)	:	50	CAL FACTOR (Report):	0.19920

		DILUTION	FACTOR:	1	Det. Limit
Benzene	(ug/L) : <0.5	Benzene	(mg/Kg):	<b>#VALUE!</b>	0.498
Toluene	(ug/L) : <0.5	Toluene	(mg/Kg):	<b>#VALUE!</b>	0.498
<b>Ethylbenzene</b>	(ug/L) : <0.5	Ethylbenzen <b>e</b>	(mg/Kg):	<b>#VALUE!</b>	0.498
p & m-xylene	(ug/L) : <1.0	p & m-xylene	(mg/Kg):	<b>#VALUE!</b>	0.996
o-xylene	(ug/L) : <0.5	o-xylene	(mg/Kg):	<b>#VALUE!</b>	0.498
		Total xylenes	(mg/Kg):	<b>#VALUE!</b>	1.494
		Total RTEY	/ma/Kal-	#\/A1 LIEI	