

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

Form C-144  
June 1, 2004

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

For drilling and production facilities, submit to  
appropriate NMOCD District Office  
For downstream facilities, submit to Santa Fe  
office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator <u>BP America Production Company</u> Telephone <u>(505)326-9200</u> e-mail address: _____		
Address <u>200 Energy Ct, Farmington, NM 87401</u>		
Facility or well name <u>CASE A # 4</u> API #: <u>30045 24041</u> U/L or Qtr/Qtr <u>I</u> Sec <u>18</u> T <u>31</u> N R <u>11</u> W		
County <u>San Juan</u> Latitude _____ Longitude _____ NAD. 1927 <input type="checkbox"/> 1983 <input checked="" type="checkbox"/>		
Surface Owner Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>		
<b>Pit</b> Type Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl		
<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: <u>MAN</u> Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If no, explain why not _____		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	100 feet or more	( 0 points)
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)
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	( 0 points)
Ranking Score (Total Points)		0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments
See Attached Documentation
RCUD JUN13'07 OIL CONS. DIV. DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 11/01/2005  
Printed Name/Title Jeffrey C. Blagg, Agent Signature Jeffrey C. Blagg  
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval  
Printed Name/Title Deputy Oil & Gas Inspector, District #3 Signature [Signature] Date: AUG 10 2007

CLIENT <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>81009</u> COC NO <u>9089</u>
------------------	--	--

FIELD REPORT: PIT CLOSURE VERIFICATION	PAGE No <u>1</u> of <u>1</u>
--	------------------------------

LOCATION. NAME <u>CASE</u> A WELL # <u>4</u> TYPE <u>SEP.</u>	DATE STARTED <u>6/26/02</u> DATE FINISHED _____
QUAD/UNIT <u>T SEC: 18 TWP 31N RNG. 11W PM: Nm CNTY: ST NM</u>	ENVIRONMENTAL SPECIALIST <u>NV</u>
QTR/FOOTAGE: <u>1680S/1010E</u> NEISE CONTRACTOR <u>HIGH DESECT (HEBER)</u>	

EXCAVATION APPROX. <u>NA</u> FT x <u>NA</u> FT x <u>NA</u> FT DEEP CUBIC YARDAGE <u>NA</u>	
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>CLOSE AS IS</u>	
LAND USE: <u>RANGE-BLM</u> LEASE: <u>SE 078095</u> FORMATION: <u>OK</u>	

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>78</u> FT. <u>N48E</u> FROM WELL HEAD
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER <u>&gt;1000'</u>
NMOC D RANKING SCORE: <u>0</u> NMOC D TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION:	DVM CALIB READ <u>52.0</u> ppm DVM CALIB GAS = <u>100</u> ppm RE = <u>0.52</u> TIME: <u>11:25</u> @/pm DATE <u>6/24/02</u>
SOIL TYPE <u>(SAND)</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u>	
SOIL COLOR <u>BLACK</u>	
COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE	
CONSISTENCY (NON COHESIVE SOILS): LOOSE / <u>FIRM</u> / DENSE / VERY DENSE	
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC	
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD	
MOISTURE DRY / SLIGHTLY MOIST / <u>MOIST</u> / WET / SATURATED / SUPER SATURATED <u>CLOSED</u>	
DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION <u>ENTIRE TEST HOLE &amp; BEDROCK SURFACE</u>	
HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION <u>TEST HOLE &amp; dvm SAMPLE.</u>	
SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. <u>-</u>	
ADDITIONAL COMMENTS: <u>COLLECTED SAMPLE FROM SOIL IMMEDIATELY ABOVE BEDROCK. BEDROCK - HARD, COMPETENT, SLIGHTLY FRIABLE.</u>	

FIELD 4181 CALCULATIONS								
SCALE	SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC ppm
0 FT								

PIT PERIMETER	OVM RESULTS	PIT PROFILE																								
	<table border="1"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr> <td>1 @ 6'</td> <td>408</td> </tr> <tr> <td>2 @</td> <td></td> </tr> <tr> <td>3 @</td> <td></td> </tr> <tr> <td>4 @</td> <td></td> </tr> <tr> <td>5 @</td> <td></td> </tr> </table> <table border="1"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> <tr> <td>0.6'</td> <td>TPH (80158)</td> <td>1450</td> </tr> <tr> <td>"</td> <td>BTEX (80216)</td> <td>"</td> </tr> <tr> <td colspan="3"><u>BOTH PASSED</u></td> </tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 6'	408	2 @		3 @		4 @		5 @		SAMPLE ID	ANALYSIS	TIME	0.6'	TPH (80158)	1450	"	BTEX (80216)	"	<u>BOTH PASSED</u>			<p>NOT APPLICABLE</p>
SAMPLE ID	FIELD HEADSPACE PID (ppm)																									
1 @ 6'	408																									
2 @																										
3 @																										
4 @																										
5 @																										
SAMPLE ID	ANALYSIS	TIME																								
0.6'	TPH (80158)	1450																								
"	BTEX (80216)	"																								
<u>BOTH PASSED</u>																										

TRAVEL NOTES: CALLOUT: <u>6/26/02 - MORN.</u> ONSITE: <u>6/26/02 - AFTER</u>
--

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

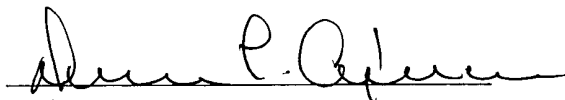
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 6'	Date Reported:	07-01-02
Laboratory Number:	23181	Date Sampled:	06-26-02
Chain of Custody No:	9089	Date Received:	06-27-02
Sample Matrix:	Soil	Date Extracted:	06-28-02
Preservative:	Cool	Date Analyzed:	07-01-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

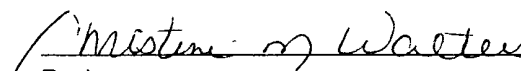
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	771	0.2
Diesel Range (C10 - C28)	202	0.1
Total Petroleum Hydrocarbons	973	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Case A #4 Separator Pit Grab Sample.**

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 6'	Date Reported:	07-01-02
Laboratory Number:	23181	Date Sampled:	06-26-02
Chain of Custody:	9089	Date Received:	06-27-02
Sample Matrix:	Soil	Date Analyzed:	07-01-02
Preservative:	Cool	Date Extracted:	06-28-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	20.4	1.8
Toluene	106	1.7
Ethylbenzene	116	1.5
p,m-Xylene	558	2.2
o-Xylene	109	1.0
Total BTEX	909	

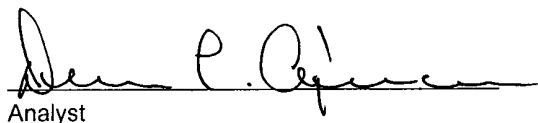
ND - Parameter not detected at the stated detection limit.

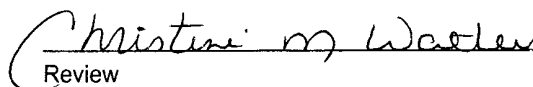
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Case A #4 Separator Pit Grab Sample.

  
Analyst

  
Review

B1009

District I

P.O. Box 1000 Hobbs, NM

District II

P.O. Box 1000 Alameda, NM

District III

1000 En Route Rd., Santa Fe, NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. BOX 2088  
SANTA FE, NEW MEXICO 87504-2088

SUBMIT COPY TO

APPROPRIATE

DISTRICT OFFICE

AND COPY TO

SANTA FE OFFICE

## PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMERICA PRODUCTION CO. Telephone: (505) 326-9200

Address: 300 AMOCO COURT, FARMINGTON, NM 87401

Facility or Well Name: Case A #4

Location: Unit or Qtr/Qtr Sec I Sec 18 T 31n R 11w County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other Blow

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

Pit Location: Pit dimensions: length NA, width NA, depth NA  
(Attach diagram)

Reference: wellhead X, other ☐

Footage from reference: 600'

Direction from reference: 23 Degrees ☒ East ☐ North ☐  
☐ West ☒ South

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

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)	<u>0</u>

Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet (20 points)	
	100 feet to 1000 feet (10 points)	
	Greater than 1000 feet (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Blow Pit B1009

Date Remediation Started: \_\_\_\_\_

Date Completed: 6-26-02

Remediation Method:

Excavation XApprox. cubic yards NA

(Check all appropriate sections)

Landfarmed \_\_\_\_\_

Insitu Bioremediation \_\_\_\_\_

Other CLOSE AS IS.

Remediation Location:

Onsite X Offsite \_\_\_\_\_(i.e. landfarmed onsite,  
name and location of  
offsite facility)General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary.NO TPH ANALYSIS WAS CONDUCTED.Groundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_Final Pit  
Closure Sampling:(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)Sample location see Attached DocumentsSample depth 8' (Test hole bottom)Sample date 6-26-02 Sample time 1455

## Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>-</u>	Total Xylenes	(ppb)	_____

Groundwater 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 6-26-02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

revised 03/27/02

bcl1202.wpd

## District I

P.O. Box 1980, Hobbs, NM

## District II

P.O. Box 1980, Hobbs, NM

## District III

1000 Rio Brazo Rd., Aztec, NM

**State of New Mexico**  
**Energy, Minerals and Natural Resources Department**

**OIL CONSERVATION DIVISION**  
**P.O. BOX 2088**  
**SANTA FE, NEW MEXICO 87504-2088**

SUBMIT 1 COPY TO  
 APPROPRIATE  
 DISTRICT OFFICE  
 AND 1 COPY TO  
 SANTA FE OFFICE

B1009

## PIT REMEDIATION AND CLOSURE REPORT

Operator: BP AMERICA PRODUCTION CO. Telephone: (505) 326-9200

Address: 300 AMOCO COURT, FARMINGTON, NM 87401

Facility or Well Name: CASE A # 4

Location: Unit or Qtr/Qtr Sec I Sec 18 T 31N R 11W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other PRODUCTION TANK

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location:  
 (Attach diagram)

Pit dimensions: length NA, width NA, depth NA

Reference: wellhead ☒, other ☐

Footage from reference: 129'

Direction from reference: 10 Degrees ☐ East ☒ North  
☒ West ☐ South

Depth To Groundwater:

(Vertical distance from  
 contaminants to seasonal  
 high water elevation of  
 groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	( 0 points)	<u>0</u>

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)	<u>0</u>

Distance To Surface Water:

(Horizontal distance to perennial  
 lakes, ponds, rivers, streams, creeks,  
 irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	( 0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_

Date Completed: 3/20/02

## Remediation Method:

Excavation XApprox. cubic yards NA

(Check all appropriate sections)

Landfarmed \_\_\_\_\_

Insitu Bioremediation \_\_\_\_\_

Other CLOSE AS IS.

## Remediation Location:

Onsite X Offsite \_\_\_\_\_

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

General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary.Groundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

## Final Pit Closure Sampling:

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

Sample location see Attached DocumentsSample depth 2' (Test hole bottom)Sample date 3/15/02 Sample time 0930

## Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>ND</u>	Total Xylenes	(ppb)	_____

Groundwater 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 3/20/02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607



# CHAIN OF CUSTODY RECORD

09800

Client / Project Name <b>BLAGE / BP</b>			Project Location <b>ABANDONED PIT CASE A # 4</b>		ANALYSIS / PARAMETERS								
Sampler: <b>NJV</b>			Client No. <b>94034-010</b>		No. of Containers <b>TPH (80158)</b>							Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL	
												GRAB SAMPLE	
<b>① @ 2'</b>	<b>3/15/02</b>	<b>0930</b>	<b>22306</b>	<b>SOIL</b>	<b>1</b>	<b>✓</b>							
Relinquished by: (Signature) <i>[Signature]</i>			Date <b>3/15/02</b>	Time <b>1131</b>	Received by: (Signature) <i>[Signature]</i>			Date <b>3/15/02</b>	Time <b>1131</b>				
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt			
											Y	N	N/A
										Received Intact	✓		
										Cool - Ice/Blue Ice	✓		

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-20-TPH QA/QC	Date Reported:	03-20-02
Laboratory Number:	22297	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-20-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	0.10%	0 - 15%
Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

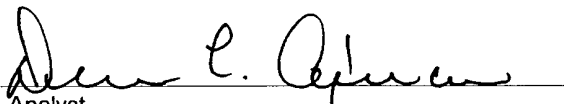
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

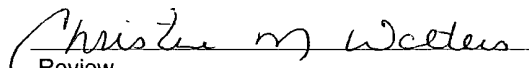
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.5%	75 - 125%
Diesel Range C10 - C28	ND	250	249	99.5%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 22297 and 22303 - 22306.

  
Analyst

  
Review



Sept 11 2009

Date Remediation Started: \_\_\_\_\_

Date Completed: 7-1-02

Remediation Method:  
(Check all appropriate sections)

Excavation X

Approx. cubic yards NA

Landfarmed \_\_\_\_\_

Insitu Bioremediation \_\_\_\_\_

Other CLOSE AS IS.

Remediation Location:

Onsite X Offsite \_\_\_\_\_

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

General Description of Remedial Action: Excavation. Test hole advanced. No remediation necessary.

Bedrock Bottom

Groundwater Encountered:

No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

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

Sample location see Attached Documents

Sample depth 6' (Test hole bottom)

Sample date 6-26-02 Sample time 1450

Sample Results

Soil: Benzene	(ppm) <u>0.0204</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>0.909</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>408</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>973</u>	Total Xylenes	(ppb) _____

Groundwater 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 7-1-02

PRINTED NAME Jeffrey C. Blagg

SIGNATURE

*Jeffrey C. Blagg*

AND TITLE President P.E. # 11607

# CHAIN OF CUSTODY RECORD

09089

Client / Project Name <b>BLAEG/ BP</b>			Project Location <b>SEPARATOR PIT</b> <b>CASE A # 4</b>		ANALYSIS / PARAMETERS									
Sampler: <b>NJV</b>			Client No. <b>94034-010</b>		No. of Containers	TPH (80158)	BTEX (80218)					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL		
<b>① @ 6'</b>	<b>6/26/02</b>	<b>1450</b>	<b>23181</b>	<b>SOIL</b>	<b>1</b>	<b>✓</b>	<b>✓</b>					<b>GRAB SAMPLE</b>		
Relinquished by: (Signature) <i>[Signature]</i>			Date <b>6/27/02</b>	Time <b>0701</b>	Received by: (Signature) <i>[Signature]</i>			Date <b>6/27/02</b>	Time <b>0701</b>					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615											Sample Receipt			
												Y	N	N/A
											Received Intact	<i>[Initials]</i>		
											Cool - Ice/Blue Ice	<i>[Initials]</i>		

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

### Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-01-TPH QA/QC	Date Reported:	07-01-02
Laboratory Number:	23181	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-01-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

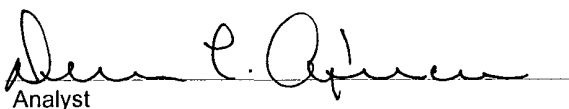
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	771	768	0.4%	0 - 30%
Diesel Range C10 - C28	202	202	0.0%	0 - 30%

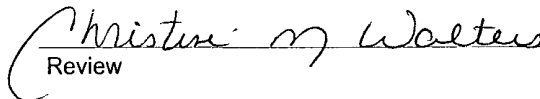
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	771	250	1,020	99.9%	75 - 125%
Diesel Range C10 - C28	202	250	451	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 23181 - 23183, 23186, 23203 - 23206, 23145.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-01-BTEX QA/QC	Date Reported:	07-01-02
Laboratory Number:	23181	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-01-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

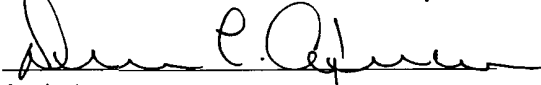
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	20.4	20.5	0.5%	0 - 30%	1.8
Toluene	106	106	0.0%	0 - 30%	1.7
Ethylbenzene	116	117	0.5%	0 - 30%	1.5
p,m-Xylene	558	562	0.6%	0 - 30%	2.2
o-Xylene	109	110	1.1%	0 - 30%	1.0

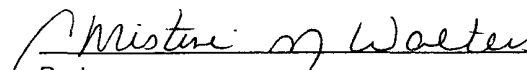
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	20.4	50.0	70.3	99.9%	39 - 150
Toluene	106	50.0	156	100.0%	46 - 148
Ethylbenzene	116	50.0	166	100.0%	32 - 160
p,m-Xylene	558	100	658	100.0%	46 - 148
o-Xylene	109	50.0	159	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 23181 - 23183, 23186, 23203.

  
Analyst

  
Review