

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 BP America Production Company Telephone: (505)326-9200 e-mail address: \_\_\_\_\_  
Address 200 Energy Ct. Farmington, NM 87401  
Facility or well name NEAL com # 2E API #: 30045 25893 U/L or Qtr/Qtr 0 Sec 14 T 31 N 11 W  
County San Juan Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD 1927 ☐ 1983 ☒  
Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank
Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid _____ 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)	

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
RCVD 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>80967</u> C.O.C. NO: <u>9902</u>
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FIELD REPORT: PIT CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME <u>NEL COM</u> WELL # <u>2E</u> TYPE <u>SEP.</u>	DATE STARTED <u>5/15/02</u>
QUAD/UNIT: <u>0</u> SEC: <u>14</u> TWP: <u>31N</u> RNG: <u>11W</u> PM: <u>NM</u> CNTY: <u>ST NM</u>	DATE FINISHED _____
QTR/FOOTAGE: <u>850' FSL / 1730' FEL SW/SE</u> CONTRACTOR <u>HIGH DESERT - HEBER</u>	ENVIRONMENTAL SPECIALIST <u>NV</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>SF 076222</u> CA SCR465 FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>108</u> FT. <u>N78E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER <u>&gt;1000'</u>
NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION:	DVM CALIB. READ. <u>53.5</u> ppm DVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u> TIME: <u>1:05</u> am/pm DATE: <u>5/14/02</u>
SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u>	
SOIL COLOR: <u>OLIVE GRAY</u> <u>BEDROCK - LT. BROWN</u>	
COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE	
CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / <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 / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED	
DISCOLORATION/STAINING OBSERVED: YES / <u>NO</u> EXPLANATION -	
HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>WITHIN SAND (VERY SLIGHT)</u>	
SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. -	
ADDITIONAL COMMENTS: <u>REMOVED TANK PRIOR TO SAMPLING. SAMPLED BEDROCK SURFACE.</u>	
<u>BEDROCK BOTTOM</u> <u>BEDROCK - VERY HARD, SLIGHTLY FRIABLE.</u>	

FIELD 418.1 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 @ 9'</td><td>8.8</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>1 @ 9'</td> <td>TPH (80158)</td> <td>1355</td> </tr> <tr> <td colspan="3"><u>PASSED</u></td> </tr> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 9'	8.8	2 @		3 @		4 @		5 @		SAMPLE ID	ANALYSIS	TIME	1 @ 9'	TPH (80158)	1355	<u>PASSED</u>			<p>NOT APPLICABLE</p>
SAMPLE ID	FIELD HEADSPACE PID (ppm)																						
1 @ 9'	8.8																						
2 @																							
3 @																							
4 @																							
5 @																							
SAMPLE ID	ANALYSIS	TIME																					
1 @ 9'	TPH (80158)	1355																					
<u>PASSED</u>																							

TRAVEL NOTES: CALLOUT: <u>5/15/02 - MORN.</u> ONSITE: <u>5/15/02 - AFTER.</u>
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

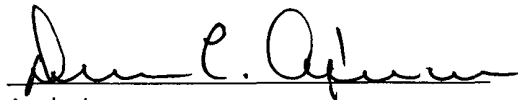
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 9'	Date Reported:	05-19-02
Laboratory Number:	22740	Date Sampled:	05-15-02
Chain of Custody No:	9902	Date Received:	05-16-02
Sample Matrix:	Soil	Date Extracted:	05-17-02
Preservative:	Cool	Date Analyzed:	05-19-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

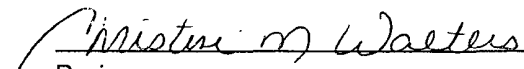
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Neal Com #2E Separator Pit Grab Sample.**

  
Analyst

  
Review

B 0967

District I

P.O. Box 1980 Hobbs, NM

District II

P.O. Box 1980 Hobbs, NM

District III

1000 Rio Bravo Rd. Artes, 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

## 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: Neal Com #2E

Location: Unit or Qtr/Qtr Sec 0 Sec 14 T 31n R 11W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other Abandoned F

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

Pit Location:  
(Attach diagram)

Pit dimensions: length NA, width NA, depth NA

Reference: wellhead X, other ☐

Footage from reference: 83'

Direction from reference: 13 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: 5-15-02

Remediation Method: Excavation X Approx. 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.  
Bedrock Bottom

Groundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit Closure Sampling: Sample location see Attached Documents  
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 16' (Test hole bottom)

Sample date 5-13-02 Sample time 1140

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 5-15-02 PRINTED NAME Jeffrey C. Blagg

SIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

# CHAIN OF CUSTODY RECORD

09900

Client / Project Name <b>BLAGE/BP</b>			Project Location <b>ABANDONED PTT (I)</b> <b>NEAL COM # 2E</b>		ANALYSIS / PARAMETERS								
Sampler: <b>NTV</b>			Client No. <b>94034-010</b>		No. of Containers <b>1</b>	TPH <b>(8015B)</b>						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								<b>PRESERVED COOL</b>	
<b>① @ 6'</b>	<b>5/13/02</b>	<b>1140</b>	<b>22721</b>	<b>SOIL</b>	<b>1</b>	<b>✓</b>						<b>GRAB SAMPLE</b>	
Relinquished by: (Signature) <i>[Signature]</i>			Date <b>5/13/02</b>	Time <b>1416</b>	Received by: (Signature) <i>[Signature]</i>			Date <b>5/13/02</b>	Time <b>1416</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	<input checked="" type="checkbox"/>		
										Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>		

# 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:	05-15-TPH QA/QC	Date Reported:	05-15-02
Laboratory Number:	22717	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-15-02
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

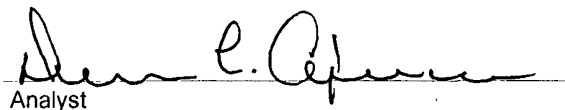
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	1,570	1,570	0.0%	0 - 30%
Diesel Range C10 - C28	7,520	7,500	0.3%	0 - 30%

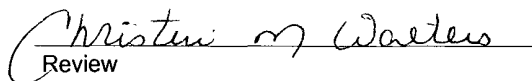
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	1,570	250	1,820	100.0%	75 - 125%
Diesel Range C10 - C28	7,520	250	7,760	100.0%	75 - 125%

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 22717 - 22723, 22726 - 22728.

  
Analyst

  
Review





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

Date Completed: 5-19-02

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.Bedrock Bottom. Risk ASSESSED.

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 7' (Test hole bottom)Sample date 5-15-02 Sample time 1410

## Sample Results

Soil: Benzene (ppm) 0.0317

Water: Benzene (ppb) \_\_\_\_\_

Total BTEX (ppm) 1.470

Toluene (ppb) \_\_\_\_\_

Field Headspace (ppm) 335

Ethylbenzene (ppb) \_\_\_\_\_

TPH (ppm) 9320

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 5-19-02PRINTED NAME Jeffrey C. Blagg

SIGNATURE

AND TITLE President P.E. # 11607

District I  
P.O. Box 1980 Hobbs NM  
District II  
P.O. Box 1980 Hobbs NM  
District III  
P.O. Box 1980 Hobbs NM

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

80967  
SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 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: Neal Com # 2E

Location: Unit or Qtr/Qtr Sec 0 Sec 14 T 31N R 11W County San Juan

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

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

Pit Location:  
(Attach diagram)

Pit dimensions: length NA, width NA, depth NA

Reference: wellhead X, other ☐

Footage from reference: 108'

Direction from reference: 78 Degrees ☒ East ☒ North  
of  
☐ 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) 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 100 feet (20 points)  
100 feet to 1000 feet (10 points)  
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 5-19-02

Remediation Method: Excavation X Approx. 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.

Bedrock Bottom

Groundwater Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit Closure Sampling: Sample location see Attached Documents  
 (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 91 (Test hole bottom)

Sample date 5-15-02 Sample time 1355

Sample Results

Soil: Benzene	(ppm) _____	Water: Benzene	(ppb) _____
Total BTEX	(ppm) _____	Toluene	(ppb) _____
Field Headspace	(ppm) <u>8.8</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 5-19-02 PRINTED NAME Jeffrey C. Blagg

SIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

# CHAIN OF CUSTODY RECORD

0990

Client / Project Name <b>BLAGG/ BP</b>			Project Location <b>NEAL COM # 2E</b>		ANALYSIS / PARAMETERS									
Sampler: <b>NJV</b>			Client No. <b>94034-010</b>		No. of Containers	TPH (8015B)	BTEX (8021B)					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL GRAB SAMPLES		
<b>① @ 9'</b>	<b>5/15/02</b>	<b>1355</b>	<b>22740</b>	<b>SOIL</b>	<b>1</b>	<b>✓</b>						<b>SEPARATOR PIT</b>		
<b>① @ 7'</b>	<b>5/15/02</b>	<b>1410</b>	<b>22741</b>	<b>SOIL</b>	<b>1</b>	<b>✓</b>	<b>✓</b>					<b>BLOW PIT</b>		
Relinquished by: (Signature) <i>Helson Vry</i>			Date <b>5/16/02</b>	Time <b>0708</b>	Received by: (Signature) <i>Wm E. Cepner</i>			Date <b>5/16/02</b>	Time <b>0208</b>					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									
<b>ENVIROTECH INC.</b> <hr/> 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:	05-19-TPH QA/QC	Date Reported:	05-19-02
Laboratory Number:	22740	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-19-02
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

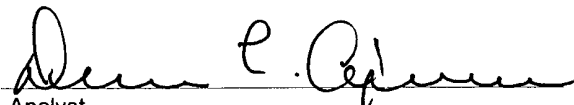
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

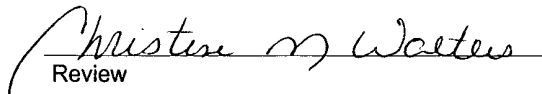
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 22740 - 22746, 22755 - 22756.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-19-BTEX QA/QC	Date Reported:	05-19-02
Laboratory Number:	22741	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-19-02
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	6.9839E-002	7.0049E-002	0.3%	ND	0.2
Toluene	5.0724E-002	5.0825E-002	0.2%	ND	0.2
Ethylbenzene	8.2086E-002	8.2333E-002	0.3%	ND	0.2
p,m-Xylene	7.1064E-002	7.1278E-002	0.3%	ND	0.2
o-Xylene	6.2661E-002	6.2787E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	31.7	30.8	2.8%	0 - 30%	1.8
Toluene	200	194	3.3%	0 - 30%	1.7
Ethylbenzene	140	135	3.2%	0 - 30%	1.5
p,m-Xylene	587	569	3.1%	0 - 30%	2.2
o-Xylene	512	499	2.6%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	31.7	50.0	81.6	99.9%	39 - 150
Toluene	200	50.0	250	99.9%	46 - 148
Ethylbenzene	140	50.0	189	99.9%	32 - 160
p,m-Xylene	587	100	687	100.0%	46 - 148
o-Xylene	512	50.0	562	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 22741 - 22746.

Analyst

Review