

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

Form C-144  
June 1, 2004

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>Gage Com #1</u> API #: <u>3004520108</u> U/L or Qtr/Qtr <u>M</u> Sec <u>20</u> T <u>30N</u> R <u>10W</u>		
County: <u>San Juan</u> Latitude _____ Longitude _____ NAD: 1927 <input type="checkbox"/> 1983 <input 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: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, 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) <u>0</u>
	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) <u>0</u>
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) <u>0</u>
	1000 feet or more	(0 points)
Ranking Score (Total Points)		<u>0</u>

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 JUN 13 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 Deputy Oil & Gas Inspector,  
Printed Name/Title District #3

Signature [Signature]

Date AUG 10 2007

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80771</u> C.D.C NO: <u>7323</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No. <u>1</u> of <u>1</u>
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LOCATION: NAME <u>GAGE com</u> WELL #: <u>1</u> PIT <u>ABAND. SEP/DEHY</u> QUAD/UNIT. <u>M SEC. 20 TWP 30N RNG 10W PM. NM CNTY: SJ ST NM</u> QTR/FOOTAGE: <u>790'S/1190'W</u> SWSW CONTRACTOR: <u>PLINT</u>	DATE STARTED <u>7/21/00</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST <u>NU</u>
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EXCAVATION APPROX. <u>16</u> FT. x <u>18</u> FT. x <u>9</u> FT. DEEP. CUBIC YARDAGE: <u>50</u>
DISPOSAL FACILITY: <u>NYE GC BIE</u> REMEDIATION METHOD: <u>STACKPIED</u>
LAND USE: <u>RANGE</u> LEASE: <u>94-000429</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>123</u> FT. <u>N48W</u> FROM WELL-HEAD.	
DEPTH TO GROUNDWATER: <u>2100'</u>	NEAREST WATER SOURCE: <u>&gt;1000'</u>	NEAREST SURFACE WATER: <u>&gt;1000'</u>
NMOCD RANKING SCORE: <u>0</u>	NMOCD TPH CLOSURE STD: <u>5000</u> PPM	CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED
SOIL AND EXCAVATION DESCRIPTION: <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">           NO. TELL BROWN MIXED W/ MED. GRAY SILTY SAND, SLIGHTLY COHESIVE MOIST, FIRM, BLACK DISCOLORATION OBSERVED THROUGHOUT ENTIRE EXCAVATION IN SMALL ISOLATED PATCHES HC ODOR DETECTED WITHIN EXCAVATION + ALL OVM SAMPLES EXCEPT SOUTH SIDEWALL.         </div>		

CLOSED

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No.	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC ppm

PIT PERIMETER

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 5'	93.3
2 @ 6'	219.6
3 @ 6'	0.0
4 @ 5'	1,291
5 @ 11'	1,615

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
⑤ @ 11'	TPH (30%)	0920
"	BTEX (30%)	"
<b>BOTH PASSED</b>		

TRAVEL NOTES:	CALLOUT <u>7/20/00 - AFTER.</u>	ONSITE: <u>7/21/00 - MON.</u>
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# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

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

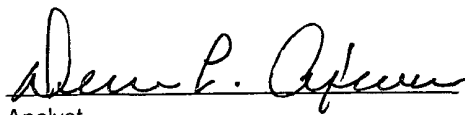
Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	5 @ 11'	Date Reported:	07-24-00
Laboratory Number:	H810	Date Sampled:	07-21-00
Chain of Custody No:	7323	Date Received:	07-21-00
Sample Matrix:	Soil	Date Extracted:	07-24-00
Preservative:	Cool	Date Analyzed:	07-24-00
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

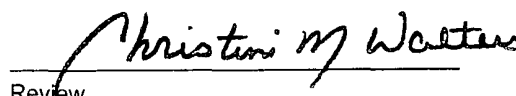
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	0.5	0.1
Total Petroleum Hydrocarbons	1.2	0.1

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: **Gage Com #1 Abandoned Separator / Dehydrator Pit.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP Amoco	Project #:	403410
Sample ID:	5 @ 11'	Date Reported:	07-24-00
Laboratory Number:	H810	Date Sampled:	07-21-00
Chain of Custody:	7323	Date Received:	07-21-00
Sample Matrix:	Soil	Date Analyzed:	07-24-00
Preservative:	Cool	Date Extracted:	07-24-00
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	60.5	1.7
Ethylbenzene	35.5	1.5
p,m-Xylene	200	2.2
o-Xylene	153	1.0
Total BTEX	449	

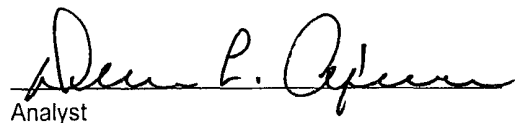
ND - Parameter not detected at the stated detection limit.

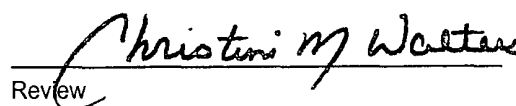
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

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: Gage Com #1 Abandoned Separator / Dehydrator Pit.

  
Analyst

  
Review

CLIENT

BP

BLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199

LOCATION NO. 30771

C.O.C NO. 14683

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: GAGE com

WELL #: 1

PITS:

DATE STARTED: 12/28/06

DATE FINISHED:

QUAD/UNIT: M SEC: 20 TWP: 30N RNG: 10W PM: NM CNTY: SJ ST: NM

QTR/FOOTAGE:

SW/SW CONTRACTOR:

ENVIRONMENTAL  
SPECIALIST: NV

## SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARM

APPROX. CUBIC YARDAGE:

LAND USE: RANGE - Blm

LIFT DEPTH (ft):

N/A

## FIELD NOTES &amp; REMARKS:

DEPTH TO GROUNDWATER: &gt;100'

NEAREST SURFACE WATER: &gt;1,000'

NEAREST WATER SOURCE

&gt;1,000'

NMOC D RANKING SCORE: 0

NMOC D TPH CLOSURE STD 5,000 PPM

SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR: MOD. TO OK. YELL. BROWN

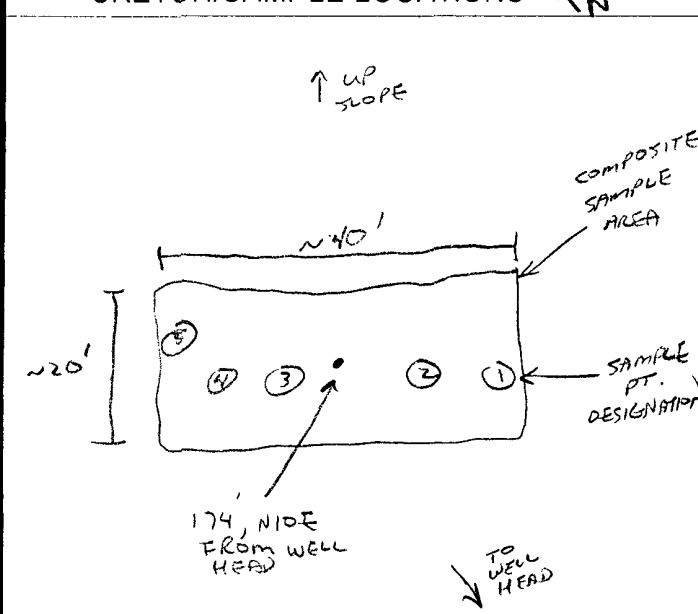
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVECONSISTENCY (NON COHESIVE SOILS): LOOSE FIRM DENSE / VERY DENSE~~PLASTICITY (CLAYS):~~ NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC~~DENSITY (COHESIVE CLAYS & SILTS):~~ SOFT / FIRM / STIFF / VERY STIFF / HARDMOISTURE DRY / SLIGHTLY MOIST / MOIST WET / SATURATED / SUPER SATURATEDDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -HC ODOR DETECTED: YES / NO EXPLANATION -

SAMPLING DEPTHS (LANDFARMS): 4 - 6 (INCHES)

SAMPLE TYPE GRAB COMPOSITE # OF PTS. 5

ADDITIONAL COMMENTS NO ACTUAL LANDFARM OBSERVED ON SITE. COLLECTED 5 PT. COMPOSITE

## SKETCH/SAMPLE LOCATIONS



OVM CALIB. READ. = ppm  
OVM CALIB. GAS = ppm RF = 0.52  
TIME am/pm DATE:

## OVM RESULTS

## LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS (PPM)
LF-1	N/A	LF-1	TPH	1200	ND
"		"	BENZENE	"	ND
"		"	TOT. BTEX	"	ND
"		"	CHLOR.	"	40.0

P.C. - 7/21/00

## SCALE

0 FT

TRAVEL NOTES: CALLOUT:

N/A

ONSITE: 12/26/01, 12/22/06

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

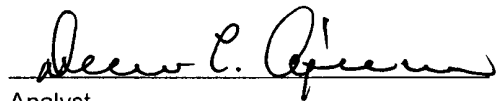
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	01-02-07
Laboratory Number:	39617	Date Sampled:	12-28-06
Chain of Custody No:	14683	Date Received:	12-28-06
Sample Matrix:	Soil	Date Extracted:	12-29-06
Preservative:	Cool	Date Analyzed:	01-02-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

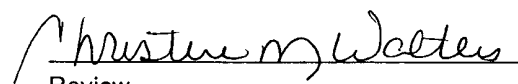
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Gage Com #1 Landfarm 5 Pt. Composite 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:	LF - 1	Date Reported:	01-02-07
Laboratory Number:	39617	Date Sampled:	12-28-06
Chain of Custody:	14683	Date Received:	12-28-06
Sample Matrix:	Soil	Date Analyzed:	01-02-07
Preservative:	Cool	Date Extracted:	12-29-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	


ND - Parameter not detected at the stated detection limit.

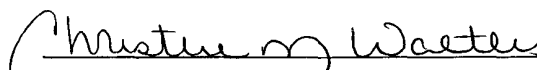
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Gage Com #1 Landfarm 5 Pt. Composite Sample

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	01-02-07
Lab ID#:	39617	Date Sampled:	12-28-06
Sample Matrix:	Soil	Date Received:	12-28-06
Preservative:	Cool	Date Analyzed:	12-29-06
Condition:	Cool and Intact	Chain of Custody:	14683

Parameter

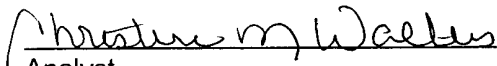
Concentration (mg/Kg)

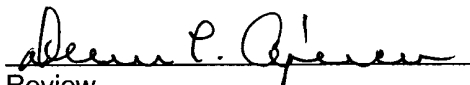
Total Chloride

40.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Gage Com #1 Landfarm 5 Pt. Composite Sample

  
Analyst

  
Review



District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
) Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

## PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: GAGE COM #1  
Well Name \_\_\_\_\_  
Location: Unit or Qtr/Qtr Sec M sec 20 T 30N R 10W county SAN JUAN  
Pit Type: Separator \_\_\_ Dehydrator \_\_\_ Other ABANDONED BLOW  
Land Type: BLM ☒, State \_\_\_, Fee \_\_\_, Other \_\_\_\_\_

Pit Location: Pit dimensions: length 12', width 12', depth 9'  
(Attach diagram) Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 96'  
Direction from reference: 66 Degrees \_\_\_ 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) 0  
high water elevation of  
ground water)

Wellhead Protection Area: Yes (20 points) 0  
(Less than 200 feet from a private No (0 points) \_\_\_\_\_  
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) 0  
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) \_\_\_\_\_  
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 7/24/00Remediation Method: Excavation ☒ Approx. cubic yards 30

(Check all appropriate sections)

Landfarmed \_\_\_\_\_

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

Other STOCKPILEDRemediation Location: Onsite \_\_\_\_\_ Offsite ☒ NYE GC B #1E (F-7-29-9)

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

General Description Of Remedial Action: \_\_\_\_\_

Excavation . BEDROCK BOTTOM . RISK ASSESSED.

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 see Attached DocumentsSample depth 6' (SOUTH SIDEWALL)Sample date 7/21/00 Sample time 1000

Sample Results

Benzene(ppm) NDTotal BTEX(ppm) 0.125Field headspace(ppm) 107.9 / 388 <sup>PIT BOTTOM</sup>TPH NDGround 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 7/24/00SIGNATURE B. ShawPRINTED NAME  
AND TITLEBuddy D. Shaw  
ENVIRONMENTAL COORDINATOR

District I  
P O Box 1980, Hobbs, NM  
District II  
P O. Drawer DD, Artesia, NM 88211  
District III  
J Rio Brazos Rd, Aztec, NM 87410

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

<b>Operator:</b> Amoco Production Company		<b>Telephone:</b> (505) - 326-9200	
<b>Address:</b> 200 Amoco Court, Farmington, New Mexico 87401			
<b>Facility Or:</b> GAGE com #1			
<b>Well Name</b>			
<b>Location:</b> Unit or Qtr/Qtr Sec <u>M</u> Sec <u>20</u> T30N R10W County <u>SAN JUAN</u>			
<b>Pit Type:</b> <sup>ABANDONED</sup> Separator <input checked="" type="checkbox"/> / <sup>ABANDONED</sup> Dehydrator <input checked="" type="checkbox"/> Other _____			
<b>Land Type:</b> BLM <input checked="" type="checkbox"/> , State _____, Fee _____, Other _____			

<b>Pit Location:</b> Pit dimensions: length <u>16'</u> , width <u>18'</u> , depth <u>9'</u> (Attach diagram)	
<b>Reference:</b> wellhead <u>X</u> , other _____	
<b>Footage from reference:</b> <u>123'</u>	
<b>Direction from reference:</b> <u>48</u> Degrees _____ East North <input checked="" type="checkbox"/> <div style="text-align: center;">of</div> <input checked="" type="checkbox"/> West South _____	

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

<b>Wellhead Protection Area:</b> (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>

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

<b>RANKING SCORE (TOTAL POINTS):</b>	<u>0</u>
--------------------------------------	----------

Date Remediation Started: \_\_\_\_\_ Date Completed: 7/24/00

Remediation Method: Excavation ☒ Approx. cubic yards 50  
 (Check all appropriate sections) Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_  
 Other STOCKPILED

Remediation Location: Onsite \_\_\_\_\_ Offsite ☒ NYE GC B FIE (F-7-29-9)  
 (ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_  
Excavation

Ground Water Encountered: No ☒ Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents  
 Closure Sampling:

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

Sample depth 11' (PIT BOTTOM)

Sample date 7/21/00 Sample time 0920

#### Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.499

Field headspace(ppm) 1,615

TPH 1.2 ppm

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 7/24/00

SIGNATURE B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

# CHAIN OF CUSTODY RECORD

73-3

Client / Project Name <b>BLAGE / BP AMOCO</b>			Project Location <b>SAGE CORP #1</b>		ANALYSIS / PARAMETERS									
Sampler: <b>NJV</b>			Client No. <b>403410</b>		No. of Containers	TPH. (8015)	BTEX (8021)					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								BOTH SAMPLES		
<b>⑤ @ 11'</b>	<b>7/21/00</b>	<b>0920</b>	<b>H810</b>	<b>5012</b>	<b>1</b>	<b>✓</b>	<b>✓</b>					<b>PRESERV. - COOL</b>		
<b>③ @ 6'</b>	<b>7/21/00</b>	<b>1000</b>	<b>H811</b>	<b>5012</b>	<b>1</b>	<b>✓</b>	<b>✓</b>					<b>ABANDONED SEPARATOR / DEHYDRATOR PIT</b>		
Relinquished by: (Signature) <i>Alison Vrij</i>			Date <b>7/21/00</b>	Time <b>1322</b>	Received by: (Signature) <i>L. O'Brien</i>			Date <b>7-21-00</b>	Time <b>13:22</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:	07-24-TPH QA/QC	Date Reported:	07-24-00
Laboratory Number:	H806	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-24-00
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-15-00	2.7731E-002	2.7704E-002	0.10%	0 - 15%
Diesel Range C10 - C28	05-15-00	1.4027E-002	1.3999E-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

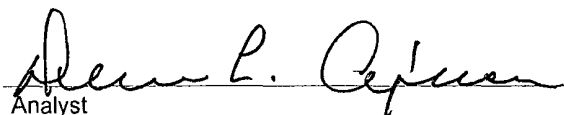
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.3	0.3	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

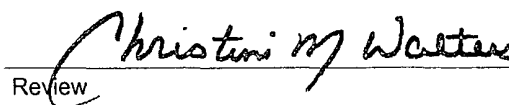
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.3	250	250	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

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 H806 - H807 and H810 - H811.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-24-BTEX QA/QC	Date Reported:	07-24-00
Laboratory Number:	H806	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-24-00
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	1.2306E-001	1.2335E-001	0.2%	ND	0.2
Toluene	5.6017E-002	5.6118E-002	0.2%	ND	0.2
Ethylbenzene	8.1536E-002	8.1708E-002	0.2%	ND	0.2
p,m-Xylene	7.7625E-002	7.7820E-002	0.3%	ND	0.2
o-Xylene	6.2483E-002	6.2589E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	12.1	11.9	1.7%	0 - 30%	1.8
Toluene	71.3	69.5	2.5%	0 - 30%	1.7
Ethylbenzene	37.5	36.6	2.4%	0 - 30%	1.5
p,m-Xylene	99.8	97.5	2.3%	0 - 30%	2.2
o-Xylene	37.1	36.5	1.6%	0 - 30%	1.0

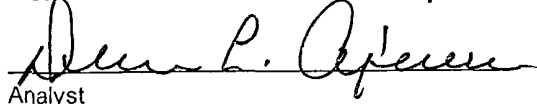
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	12.1	50.0	62.1	100%	39 - 150
Toluene	71.3	50.0	121	100%	46 - 148
Ethylbenzene	37.5	50.0	87.4	100%	32 - 160
p,m-Xylene	99.8	100	200	100%	46 - 148
o-Xylene	37.1	50.0	87.0	100%	46 - 148

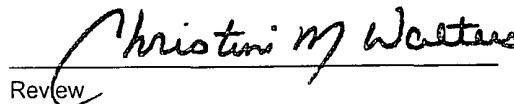
\* - Administrative range set to 80 - 120%.

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 H806 - H807 and H810 - H811.

  
Analyst

  
Review

CLIENT <u>BP</u>	<b>BLAGG ENGINEERING, INC.</b> P O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO <u>80771</u> C.O.C NO _____
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## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME	GAGE COM	WELL #: <u>1</u>	PITS: <u>BLOW</u> , SEP./DEHP	DATE STARTED <u>12/26/01</u>
QUAD/UNIT <u>M</u>	SEC: <u>20</u>	TWP: <u>30N</u>	RNG: <u>10W</u>	PM: <u>Nm</u> CNTY: <u>ST</u> ST: <u>Nm</u>
QTR/FDDTAGE: <u>SW/SE</u> CONTRACTOR: <u>FLINT</u>				ENVIRONMENTAL SPECIALIST <u>NV</u>

### SOIL REMEDIATION.

 REMEDIATION SYSTEM: SEE COMMENTS BELOW

 APPROX. CUBIC YARDAGE 80

 LAND USE: RANGE - BLM

LIFT DEPTH (ft). \_\_\_\_\_

FIELD NOTES & REMARKS:	NMOCD RANKING SCORE: <u>0</u>	NMOCD TPH CLOSURE STD <u>5000</u> ppm
DEPTH TO GROUNDWATER: <u>&gt;100'</u>	NEAREST WATER SOURCE: <u>&gt;1000'</u>	NEAREST SURFACE WATER <u>&gt;1000'</u>

SOIL TYPE SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER \_\_\_\_\_  
 SOIL COLOR \_\_\_\_\_  
 COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE  
 CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / 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 / MOIST / WET / SATURATED / SUPER SATURATED  
 DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - \_\_\_\_\_  
 HC ODOR DETECTED: YES / NO EXPLANATION - \_\_\_\_\_  
 SAMPLING DEPTHS (LANDFARMS): \_\_\_\_\_ (INCHES)  
 SAMPLE TYPE GRAB / COMPOSITE - # OF PTS. \_\_\_\_\_  
 ADDITIONAL COMMENTS: NO LANDFARM OBSERVED ON-SITE. SOIL PROBABLY TRANSPORTED TO  
NYE GC B/E F-7-29-9

### FIELD 418.1 CALCULATIONS

SAMP TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC ppm

### SKETCH/SAMPLE LOCATIONS

NO LANDFARM  
OBSERVED

OVM CALIB. READ. \_\_\_\_\_ ppm  
 OVM CALIB GAS = 100 ppm, RF = 0.52  
 TIME: \_\_\_\_\_ am/pm DATE \_\_\_\_\_

### OVM RESULTS      LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS

P.C. 7/21/01

#### SCALE



0      1 FT

TRAVEL NOTES: CALLOUT: <u>N/A</u>	ONSITE: <u>12/26/01</u>
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14683

see web reproduction E78-120

# 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:	01-02-07 QA/QC	Date Reported:	01-02-07
Laboratory Number:	39612	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	9.9501E+002	9.9601E+002	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	9.8869E+002	9.9067E+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

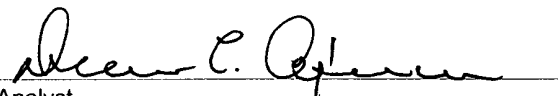
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

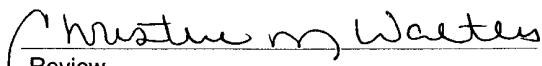
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 39612 - 39618

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-02-BTEX QA/QC	Date Reported:	01-02-07
Laboratory Number:	39612	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-07
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	3.3208E+007	3.3275E+007	0.2%	ND	0.2
Toluene	4.4577E+007	4.4667E+007	0.2%	ND	0.2
Ethylbenzene	2.1124E+007	2.1167E+007	0.2%	ND	0.2
p,m-Xylene	9.0067E+007	9.0248E+007	0.2%	ND	0.2
o-Xylene	3.9449E+007	3.9528E+007	0.2%	ND	0.1

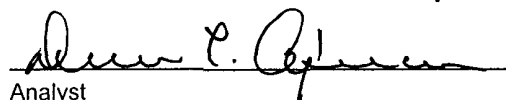
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	4.7	4.7	0.0%	0 - 30%	1.7
Ethylbenzene	7.4	7.4	0.0%	0 - 30%	1.5
p,m-Xylene	25.5	25.4	0.4%	0 - 30%	2.2
o-Xylene	11.5	11.5	0.0%	0 - 30%	1.0

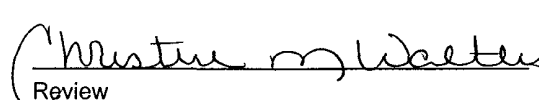
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	4.7	50.0	54.6	99.8%	46 - 148
Ethylbenzene	7.4	50.0	57.3	99.8%	32 - 160
p,m-Xylene	25.5	100	125	99.8%	46 - 148
o-Xylene	11.5	50.0	61.5	100.0%	46 - 148

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 39612 - 39618

  
Analyst

  
Review