

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 CAUOW #12E API #: 30045 24296 U/L or Qtr/Qtr A Sec 33 T 29 N R 13 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 type="checkbox"/> Disposal <input checked="" 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	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

RCUD JUN8'07

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>80923</u> COC NO <u>8890</u>
-------------------	--	--

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

LOCATION: <u>NAME: CALLOW</u> WELL #: <u>12E</u> PIT: <u>DEHY</u> QUAD/UNIT: <u>A SEC: 33 TWP. 29N RNG: 13W PM: NM CNTY. SJ ST: NM</u> QTR/FOOTAGE: <u>790'N/1120'E</u> <u>NE/NE</u> CONTRACTOR: <u>FLINT</u>	DATE STARTED <u>11/11/01</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST <u>NV</u>
---	---

EXCAVATION APPROX. <u>19</u> FT. x <u>20</u> FT. x <u>1</u> FT. DEEP	CUBIC YARDAGE <u>10-15</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>DILUTED/AERATED</u>
LAND USE: <u>RANGE - BLM</u>	LEASE: <u>Nm0468126</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>78</u> FT. <u>N84W</u> FROM WELL-HEAD	
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER <u>>1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM

SOIL AND EXCAVATION DESCRIPTION: SOIL TYPE: <u>SAND</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK (SANDSTONE)</u> SOIL COLOR: <u>DRY YELL. ORANGE-BROWN</u> LT. GRAY-BEDROCK 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 / <u>SATURATED</u> / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION - <u>ENTIRE TEST HOLE INTERVAL (APPROX. 1')</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION - <u>ENTIRE TEST HOLE INTERVAL & OVM SAMPLE</u> SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. <u>1</u> ADDITIONAL COMMENTS: <u>BEDROCK - SLIGHTLY FRIABLE, VERY HARD. PARAFFIN TYPE SOLIDS & FLUIDS</u> <u>SATURATED SOIL ABOVE BEDROCK. INSTRUCTED OPERATOR TO DILUTE & AERATE SOIL</u> <u>ABOVE BEDROCK & CONTAIN WITHIN PIT AREA</u>	CHECK ONE <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED
---	---

FIELD 418.1 CALCULATIONS							
SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC ppm

SCALE 0 FT

PIT PERIMETER

P.D. APPROX. 2' B.G.
T.H. APPROX. 1' BELOW P.O.
BERM
METER RUN

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 3'	166.7
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
① @ 3'	TPH (80158)	1315
"	BTX (80218)	"

TO WELL HEAD

PIT PROFILE

NOT APPLICABLE

PD = PIT DEPRESSION; B.G. = BELOW GRADE TH = TEST HOLE	TRAVEL NOTES: CALLOUT: <u>1/10/02 - AFTER</u> ONSITE: <u>12/11/02 - AFTER</u>
---	---

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

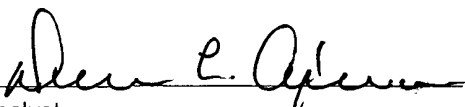
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 3'	Date Reported:	01-14-02
Laboratory Number:	21789	Date Sampled:	01-11-02
Chain of Custody No:	8890	Date Received:	01-11-02
Sample Matrix:	Soil	Date Extracted:	01-14-02
Preservative:	Cool	Date Analyzed:	01-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

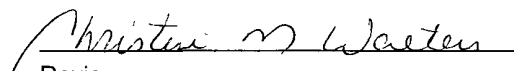
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	631	0.2
Diesel Range (C10 - C28)	3,290	0.1
Total Petroleum Hydrocarbons	3,920	0.2

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: Callow #12E Dehydrator 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 @ 3'	Date Reported:	01-14-02
Laboratory Number:	21789	Date Sampled:	01-11-02
Chain of Custody:	8890	Date Received:	01-11-02
Sample Matrix:	Soil	Date Analyzed:	01-14-02
Preservative:	Cool	Date Extracted:	01-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,600	1.8
Toluene	32.5	1.7
Ethylbenzene	660	1.5
p,m-Xylene	1,290	2.2
o-Xylene	806	1.0
Total BTEX	4,390	

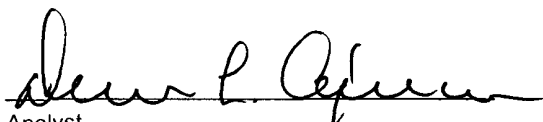
ND - Parameter not detected at the stated detection limit.

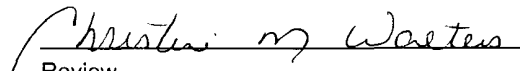
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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: Callow #12E Dehydrator Pit Grab Sample.


Analyst


Review

80923

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, 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

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>BP AMOCO</u>		Telephone: <u>(505) 326-9200</u>	
Address: <u>200 AMOCO COURT, FARMINGTON, NM 87401</u>			
Facility or Well Name: <u>CANOW #12E</u>			
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>33</u> T <u>29N</u> R <u>13W</u> County <u>SAN JUAN</u>			
Pit Type: Separator <input type="checkbox"/> Dehydrator <input type="checkbox"/> Other <u>ABANDONED</u>			
Land Type: BLM <input checked="" type="checkbox"/> , State <input type="checkbox"/> , Fee <input type="checkbox"/> , Other <input type="checkbox"/>			
Pit Location: (Attach diagram)		Pit dimensions: length <u>15'</u> , width <u>13'</u> , depth <u>1'</u> Reference: wellhead <u>X</u> , other _____ Footage from reference: <u>144'</u> Direction from reference: <u>50</u> Degrees <input type="checkbox"/> East <input type="checkbox"/> North <input checked="" type="checkbox"/> West <input type="checkbox"/> South <input checked="" type="checkbox"/>	
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): <u>0</u>	

Date Remediation Started: _____ Date Completed: 11/14/02

Remediation Method: **Excavation** ☒ **Approx. cubic yards** 5-10
(Check all appropriate sections) **Landfarmed** _____ **In situ Bioremediation** _____
Other DILUTED & AERATED

Remediation Location: **Onsite** ☒ **Offsite** _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation. BEDROCK BOTTOM. SOIL PLACED BACK INTO PIT AREA.

Groundwater 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** 3' (TEST HOLE BOTTOM)

Sample date 11/11/02 **Sample time** 1310

Sample Results

Soil: Benzene	(ppm) <u>0.0058</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>0.233</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>215</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>148</u>	Total Xylenes	(ppb) _____

Groundwater 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 11/14/02 **PRINTED NAME** Jeffrey C. Blagg

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

80923

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, 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

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>BP AMOCO</u> Telephone: <u>(505) 326-9200</u>										
Address: <u>200 AMOCO COURT, FARMINGTON, NM 87401</u>										
Facility or Well Name: <u>CALLOW # 12E</u>										
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>33</u> T <u>29N</u> R <u>13W</u> County <u>SAN JUAN</u>										
Pit Type: Separator <input type="checkbox"/> Dehydrator <input checked="" type="checkbox"/> Other <input type="checkbox"/>										
Land Type: BLM <input checked="" type="checkbox"/> , State <input type="checkbox"/> , Fee <input type="checkbox"/> , Other <input type="checkbox"/>										
Pit Location: (Attach diagram)	Pit dimensions: length <u>19'</u> , width <u>20'</u> , depth <u>1'</u> Reference: wellhead <u>X</u> , other _____ Footage from reference: <u>78'</u> Direction from reference: <u>84</u> Degrees <input type="checkbox"/> East <input checked="" type="checkbox"/> North <input type="checkbox"/> South <input checked="" type="checkbox"/> West									
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	<table style="width: 100%;"> <tr> <td style="width: 50%;">Less than 50 feet</td> <td style="width: 20%;">(20 points)</td> <td style="width: 30%;"></td> </tr> <tr> <td>50 feet to 99 feet</td> <td>(10 points)</td> <td></td> </tr> <tr> <td>Greater than 100 feet</td> <td>(0 points)</td> <td style="text-align: center;"><u>0</u></td> </tr> </table>	Less than 50 feet	(20 points)		50 feet to 99 feet	(10 points)		Greater than 100 feet	(0 points)	<u>0</u>
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)	<table style="width: 100%;"> <tr> <td style="width: 50%;">Yes</td> <td style="width: 20%;">(20 points)</td> <td style="width: 30%;"></td> </tr> <tr> <td>No</td> <td>(0 points)</td> <td style="text-align: center;"><u>0</u></td> </tr> </table>	Yes	(20 points)		No	(0 points)	<u>0</u>			
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)	<table style="width: 100%;"> <tr> <td style="width: 50%;">Less than 100 feet</td> <td style="width: 20%;">(20 points)</td> <td style="width: 30%;"></td> </tr> <tr> <td>100 feet to 1000 feet</td> <td>(10 points)</td> <td style="text-align: center;"><u>0</u></td> </tr> <tr> <td>Greater than 1000 feet</td> <td>(0 points)</td> <td></td> </tr> </table>	Less than 100 feet	(20 points)		100 feet to 1000 feet	(10 points)	<u>0</u>	Greater than 1000 feet	(0 points)	
Less than 100 feet	(20 points)									
100 feet to 1000 feet	(10 points)	<u>0</u>								
Greater than 1000 feet	(0 points)									
RANKING SCORE (TOTAL POINTS): <u>0</u>										
revised: 03/12/01										

Date Remediation Started: _____ Date Completed: 1/14/02

Remediation Method: Excavation ☒ Approx. cubic yards 10-15
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
Other DILUTED & AERATED

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)General Description of Remedial Action: Excavation. BEDROCK BOTTOM. SOIL PLACED BACK
INTO PIT AREA.Groundwater 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 3' (TEST HOLE BOTTOM)

Sample date 1/11/01 Sample time 1315

Sample Results

Soil: Benzene (ppm) 1.600 Water: Benzene (ppb) _____Total BTEX (ppm) 4.390 Toluene (ppb) _____Field Headspace (ppm) 166.7 Ethylbenzene (ppb) _____TPH (ppm) 3,920 Total Xylenes (ppb) _____Groundwater 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 1/14/02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P. E. # 11607

CHAIN OF CUSTODY RECORD

08890

Client / Project Name BLAGE / BP			Project Location CALLOW # 12E		ANALYSIS / PARAMETERS																				
Sampler: NJV			Client No. 94037-010		No. of Containers	TPH (80158)	BTEX (80218)					Remarks													
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								PRESERVED COOL GRAB SAMPLES													
① @ 3'	1/11/02	1310	21788	SOIL	1	✓	✓					ABANDONED PIT													
① @ 3'	1/11/02	1315	21789	SOIL	1	✓	✓					DEHYDRATOR PIT													
Relinquished by: (Signature) <i>[Signature]</i>			Date 1/11/02	Time 1422	Received by: (Signature) <i>[Signature]</i>			Date 1/11/02	Time 14:22																
Relinquished by: (Signature)					Received by: (Signature)																				
Relinquished by: (Signature)					Received by: (Signature)																				
<div style="text-align: center;"> ENVIROTECH INC. <hr/> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615 </div>												Sample Receipt <table border="1"> <tr> <td> </td> <td>Y</td> <td>N</td> <td>N/A</td> </tr> <tr> <td>Received Intact</td> <td>✓</td> <td> </td> <td> </td> </tr> <tr> <td>Cool - Ice/Blue Ice</td> <td>✓</td> <td> </td> <td> </td> </tr> </table>			Y	N	N/A	Received Intact	✓			Cool - Ice/Blue Ice	✓		
	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:	01-14-TPH QA/QC	Date Reported:	01-14-02
Laboratory Number:	21787	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-14-02
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%

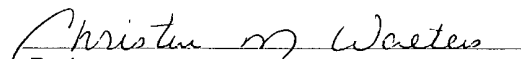
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 21787 - 21791.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-14-BTEX QA/QC	Date Reported:	01-14-02
Laboratory Number:	21788	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-14-02
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	1.7143E-001	1.7195E-001	0.3%	ND	0.2
Toluene	9.4693E-002	9.4883E-002	0.2%	ND	0.2
Ethylbenzene	1.2284E-001	1.2321E-001	0.3%	ND	0.2
p,m-Xylene	1.0810E-001	1.0843E-001	0.3%	ND	0.2
o-Xylene	9.2106E-002	9.2290E-002	0.2%	ND	0.1

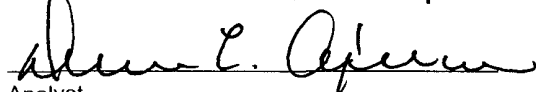
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect Limit
Benzene	5.8	5.7	1.7%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	60.6	59.1	2.5%	0 - 30%	1.5
p,m-Xylene	144	140	2.3%	0 - 30%	2.2
o-Xylene	22.4	22.0	1.8%	0 - 30%	1.0

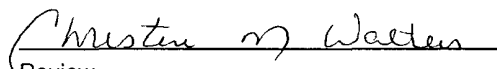
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	5.8	50.0	55.7	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	60.6	50.0	111	99.9%	32 - 160
p,m-Xylene	144	100	243	99.9%	46 - 148
o-Xylene	22.4	50.0	72.3	99.9%	46 - 148

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 21788 - 21791.


Analyst


Review