

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>GCM #191</u>	API # <u>30045 11590</u>	U/L or Qtr/Qtr <u>P</u> Sec <u>32</u> T <u>28</u> N <u>R</u> <u>12</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"/>		
Pit 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		
Below-grade tank 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) <u>20</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>20</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
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

Deputy Oil & Gas Inspector,
District #3

Printed Name/Title _____

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>80963</u> C.D.C. NO: <u>9895</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>GCU</u> WELL # <u>191</u> TYPE <u>PROD. TANK</u> QUAD/UNIT. <u>P</u> SEC: <u>32</u> TWP. <u>28N</u> RNG: <u>12W</u> PM. NM CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>840's/840'E</u> <u>SE/SE</u> CONTRACTOR: <u>FLWT - CORNEL</u>	DATE STARTED <u>5/10/02</u> DATE FINISHED _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>NA</u> FT x <u>NA</u> FT x <u>NA</u> FT. DEEP. CUBIC YARDAGE <u>250</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>DILUTED/AERATED</u>
LAND USE: <u>RANGE - NAPI</u> LEASE: <u>SF 079346</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>760</u> FT. <u>SSOW</u> FROM WELLHEAD	
DEPTH TO GROUNDWATER: <u><50'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOC D RANKING SCORE: <u>20</u>	NMOC D TPH CLOSURE STD: <u>100</u> PPM

SOIL AND EXCAVATION DESCRIPTION: SOIL TYPE: <u>SAND</u> SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____ SOIL COLOR: <u>PALE TO MED. YELL. 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>① @ 8' OUM SAMPLE ONLY</u> SAMPLE TYPE: <u>GRAB</u> / COMPOSITE - # OF PTS. _____ ADDITIONAL COMMENTS: <u>INITIALLY ADVANCED SUBSURFACE TRENCH THEN TEST HOLE UPON 1ST OUM READING.</u> <u>INSTRUCTED CREW SUPERVISOR TO STIR UP TOP 4 FT. OF SUBSURFACE SOIL TO AERATE LT. END HC CONTAMINATION (DILUTED/AERATED METHOD).</u>	OVM CALIB. READ. <u>53.0</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u> TIME: <u>8:50</u> am/pm DATE: <u>5/10/02</u>
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FIELD 418.1 CALCULATIONS								
SCALE	SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0 FT								

PIT PERIMETER <p>P.D. = PIT DEPRESSION; B.G. = BELOW GRADE T.H. = TEST HOLE, ~ = APPROX.; B = BELOW</p>	PIT PROFILE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">OVM RESULTS</th> </tr> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr> <td>1 @ 8'</td> <td>430</td> </tr> <tr> <td>2 @ 15'</td> <td>0.0</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" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">LAB SAMPLES</th> </tr> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> <tr> <td>① @ 8'</td> <td>TPH (8015.8)</td> <td>0845</td> </tr> <tr> <td>"</td> <td>BTEX (80218)</td> <td>"</td> </tr> <tr> <td>② @ 15'</td> <td>TPH (8015.8)</td> <td>0900</td> </tr> </table> <p style="text-align: center; border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">PASSED</p>	OVM RESULTS		SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 8'	430	2 @ 15'	0.0	3 @		4 @		5 @		LAB SAMPLES			SAMPLE ID	ANALYSIS	TIME	① @ 8'	TPH (8015.8)	0845	"	BTEX (80218)	"	② @ 15'	TPH (8015.8)	0900
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TRAVEL NOTES: CALLOUT: <u>5/10/02 - MORN.</u> ONSITE: <u>5/10/02 - MORN.</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

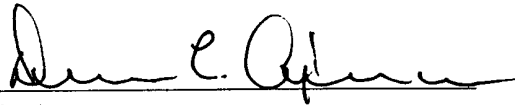
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	1 @ 8'	Date Reported:	05-14-02
Laboratory Number:	22712	Date Sampled:	05-10-02
Chain of Custody No:	9895	Date Received:	05-10-02
Sample Matrix:	Soil	Date Extracted:	05-13-02
Preservative:	Cool	Date Analyzed:	05-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

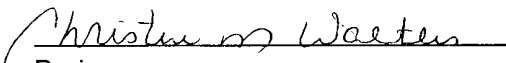
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	121	0.2
Diesel Range (C10 - C28)	12.6	0.1
Total Petroleum Hydrocarbons	134	0.2

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: **GCU #191 Production Tank Pit Grab Sample.**


Analyst


Review

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:	2 @ 15'	Date Reported:	05-14-02
Laboratory Number:	22713	Date Sampled:	05-10-02
Chain of Custody No:	9895	Date Received:	05-10-02
Sample Matrix:	Soil	Date Extracted:	05-13-02
Preservative:	Cool	Date Analyzed:	05-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

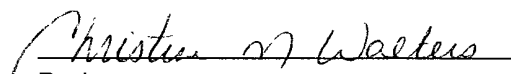
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **GCU #191 Production Tank 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 @ 8'	Date Reported:	05-14-02
Laboratory Number:	22712	Date Sampled:	05-10-02
Chain of Custody:	9895	Date Received:	05-10-02
Sample Matrix:	Soil	Date Analyzed:	05-14-02
Preservative:	Cool	Date Extracted:	05-13-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	22.3	1.5
p,m-Xylene	235	2.2
o-Xylene	246	1.0
Total BTEX	503	

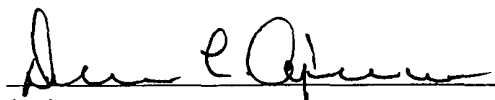
ND - Parameter not detected at the stated detection limit.

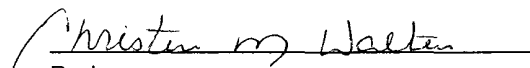
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

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: GCU #191 Production Tank Pit Grab Sample.


Analyst


Review

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

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: GCU #191

Location: Unit or Qtr/Qtr Sec 7 Sec 32 T 28N R 12W County San Juan

Pit Type: Separator Dehydrator Other Blow

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: 216'

Direction from reference: 18 Degrees East North
 West of 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)

20 KAG
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):

20 KAG
0

Date Remediation Started: _____

Date Completed: 5-14-02

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 9' (Test hole bottom)Sample date 5-10-02 Sample time 0935

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 5-14-02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

Vul

B0963

District I

P.O. Box 1980 Hobbs, NM

District II

P.O. Box 1980 Hobbs, NM

District III

1000 Rio Bravo Rd., Artesia, 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: GCU #191

Location: Unit or Qtr/Qtr Sec P Sec 32 T 28N R 12W County San Juan

Pit Type: Separator ☐ Dehydrator ☐ Other Production Tank

Land Type: BLM ☒ State ☐ Fee ☐ Other ☐

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

Reference: wellhead ☒ other ☐

Footage from reference: 760'

Direction from reference: 50 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)

20 KA9
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):

20 KA9
0

Date Remediation Started: _____

Date Completed: 5-14-02

Remediation Method:

Excavation XApprox. cubic yards NA ^{mv} 250

(Check all appropriate sections)

Landfarmed _____

Insitu Bioremediation _____

Other CLOSE AS IS. ^{mv}DILUTED/AERATED

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. ^{mv}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') + (15' ←) (Test hole bottom)Sample date 5-10-02 Sample time 0845 - 0900

Sample Results

Soil: Benzene	(ppm)	<u>ND - 8'</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>0.503 - 8'</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>430 - 8'</u>	Ethylbenzene	(ppb)	_____
		<u>0.0 - 15'</u>	Total Xylenes	(ppb)	_____
TPH	(ppm)	<u>134 - 8'</u>			
		<u>ND - 15'</u>			

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 5-14-02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

CHAIN OF CUSTODY RECORD

0989

Client / Project Name BLAGG/BP			Project Location GCN #191		ANALYSIS / PARAMETERS									
Sampler: NJV			Client No. 94034-010		No. of Containers	TPH (80158)	BTEX (8218)						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
① @ 8'	5/10/02	0845	22712	SOIL	1	✓	✓						PRESERVED COOL GRAB SAMPLES	
② @ 15'	5/10/02	0900	22713	SOIL	1	✓							" " " RUN ① @ 8' FIRST IF TPH > 100 PPM THEN RUN ② @ 15'	
① @ 9'	5/10/02	0935	22714	SOIL	1	✓							BLOW 91V PRODUCTION TANK PIT	
Relinquished by: (Signature) <i>[Signature]</i>			Date 5/10/02	Time 1010	Received by: (Signature) <i>[Signature]</i>			Date 5/10/02	Time 1010					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									
ENVIROTECH INC. 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:	05-14-TPH QA/QC	Date Reported:	05-14-02
Laboratory Number:	22708	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-14-02
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

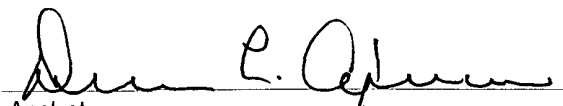
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

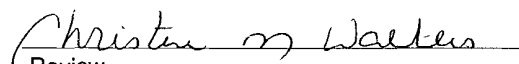
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 22708 - 22716.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-14-BTEX QA/QC	Date Reported:	05-14-02
Laboratory Number:	22708	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-14-02
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	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

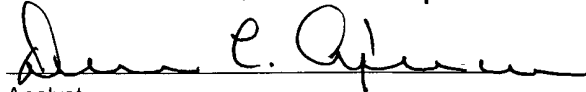
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

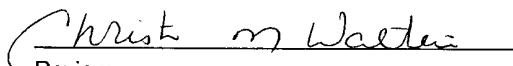
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.8	99.6%	46 - 148

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 22708 - 22712, 22716.


Analyst


Review