

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>CALLOW A #1E</u> API #: <u>30045 24287</u> U/L or Qtr/Qtr <u>M</u> Sec <u>27</u> T <u>29</u> N <u>13</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 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		
Below-grade tank 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>10</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>10</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

County 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>80925</u> C.D.C. NO <u>8891</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>CALLOW A</u> WELL #: <u>1E</u> PIT: <u>SEP</u>	DATE STARTED <u>1/14/02</u> DATE FINISHED _____
QUAD/UNIT: <u>M</u> SEC: <u>27</u> TWP: <u>29N</u> RNG: <u>13W</u> PM: <u>NM</u> CNTY: <u>ST. NM</u>	ENVIRONMENTAL SPECIALIST <u>NV</u>
QTR/FOOTAGE: <u>1120'S/1100'W</u> SWL/SW CONTRACTOR <u>FLINT</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 - RUM</u> LEASE: <u>SF-006988</u> FORMATION <u>OK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>153</u> FT. <u>N45E</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>10</u> NMOC D TPH CLOSURE STD: <u>1000</u> PPM

SOIL AND EXCAVATION DESCRIPTION:	OVM CALIB. READ: <u>51.6</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u> TIME: <u>12:30</u> am/pm DATE: <u>1/14/02</u>	CHECK ONE <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED
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SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____

SOIL COLOR: DK. YELL. ORANGE

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 - _____

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. -

ADDITIONAL COMMENTS: STEEL TANK REMOVED PRIOR TO SAMPLING.

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

PIT PERIMETER <p>P.D. APPROX. 7' B.G. T.H. APPROX. 3' B.G. 14' x 14' WOODEN RETAINING WALL TO WELL HEAD</p>	OVM RESULTS <table border="1"> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> <tr><td>1 @ 11'</td><td>0.0</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>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 11'	0.0	2 @		3 @		4 @		5 @		PIT PROFILE <p>NOT APPLICABLE</p>
SAMPLE ID	FIELD HEADSPACE PID (ppm)													
1 @ 11'	0.0													
2 @														
3 @														
4 @														
5 @														
LAB SAMPLES <table border="1"> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> <tr> <td>① 11'</td> <td>TAH (80/58)</td> <td>1330</td> </tr> <tr> <td colspan="3" style="text-align: center;"><u>ASSESSED</u></td> </tr> </table>			SAMPLE ID	ANALYSIS	TIME	① 11'	TAH (80/58)	1330	<u>ASSESSED</u>					
SAMPLE ID	ANALYSIS	TIME												
① 11'	TAH (80/58)	1330												
<u>ASSESSED</u>														

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE
T.H. = TEST HOLE

TRAVEL NOTES: CALLOUT: <u>1/14/02 - LATE MORN.</u> ONSITE: <u>1/14/02 - AFTER.</u> <u>1:15</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 @ 11'	Date Reported:	01-15-02
Laboratory Number:	21795	Date Sampled:	01-14-02
Chain of Custody No:	8891	Date Received:	01-15-02
Sample Matrix:	Soil	Date Extracted:	01-15-02
Preservative:	Cool	Date Analyzed:	01-15-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

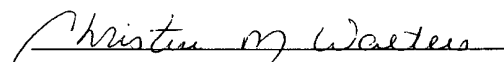
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Callow A #1E Separator Pit Grab Sample.**


Analyst


Review

Date Remediation Started: _____ Date Completed: 11/21/02

Remediation Method: Excavation ☒ Approx. cubic yards 200
(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. SOIL DILUTED & AERATED. SAMPLED
STOCKPILE PRIOR TO PLACING BACK INTO PIT AREA [TPH = 1,010 PPM, BENZENE =
0.0812 PPM, TOTAL BTEX = 0.968 PPM (SEE ATTACHED LAB REPORTS)]

Groundwater Encountered: No ☒ Yes _____ Depth _____

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

Sample depth 13' (1/14/02) 16' (1/17/02) - PIT BOTTOM

Sample date 1/17/02 ← Sample time 0845

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) _____ Toluene (ppb) _____

Field Headspace (ppm) 6.3 Ethylbenzene (ppb) _____

TPH (ppm) ND 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 11/21/02 PRINTED NAME Jeffrey C. Blagg

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

District I

P O Box 1980 Hobbs NM

District II

P O Drawer DD Artesia NM

District III

1000 Rio Brizo 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 A #1E</u>			
Location: Unit or Qtr/Qtr Sec <u>M</u> Sec <u>27</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>BLOW</u>			
Land Type: BLM <u>X</u> , State <input type="checkbox"/> , Fee <input type="checkbox"/> , Other <input type="checkbox"/>			
Pit Location: (Attach diagram)		Pit dimensions: length <u>NA</u> , width <u>NA</u> , depth <u>NA</u>	
		Reference: wellhead <u>X</u> , other <input type="checkbox"/>	
		Footage from reference: <u>146'</u>	
		Direction from reference: <u>18</u> Degrees <input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North <div style="text-align: center;">of</div> <input type="checkbox"/> West <input type="checkbox"/> 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>10</u> ⁹¹⁵ <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> <u>10</u> ⁹¹⁵
RANKING SCORE (TOTAL POINTS):			<u>0</u>

80925

BLow PTT

Date Remediation Started: _____ Date Completed: 1/15/02

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.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 12' (Test hole bottom)

Sample date 1/14/02 Sample time 1338

Sample Results

Soil: Benzene	(ppm) _____	Water: Benzene	(ppb) _____
Total BTEX	(ppm) _____	Toluene	(ppb) _____
Field Headspace	(ppm) <u>20.7</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>281</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 1/15/02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

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: BP AMOCO Telephone: (505) 326-9200

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility or Well Name: CAUDON A #1E

Location: Unit or Qtr/Qtr Sec M Sec 27 T 29N R 13W County SAN JUAN

Pit Type: Separator Dehydrator ✓ Other

Land Type: BLM ✓, State , Fee , Other

Pit Location:
(Attach diagram)

Pit dimensions: length 21', width 20', depth 13'

Reference: wellhead X, other

Footage from reference: 128'

Direction from reference: 5 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>10</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): 10

Date Remediation Started: _____ Date Completed: 1/21/02

Remediation Method: Excavation ☒ Approx. cubic yards 150
(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. SOIL DILUTED & AERATED. SAMPLED STOCKPILE PRIOR TO PLACING BACK INTO PIT AREA [TPH = 615 ppm, BENZENE = 0.397 ppm, TOTAL BTEX = 4.350 ppm (SEE ATTACHED LAB REPORTS)]

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 13' (TEST HOLE BOTTOM)

Sample date 1/14/02 Sample time 1350

Sample Results

Soil: Benzene	(ppm) <u>0.615</u>	Water: Benzene	(ppb) _____
Total BTEX	(ppm) <u>3.380</u>	Toluene	(ppb) _____
Field Headspace	(ppm) <u>465</u>	Ethylbenzene	(ppb) _____
TPH	(ppm) <u>945</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 1/21/02 PRINTED NAME Jeffrey C. Blagg
SIGNATURE Jeffrey C. Blagg AND TITLE President P. E. # 11607

Date Remediation Started: _____

Date Completed: 11/15/02Remediation Method: Excavation X
(Check all appropriate sections)

Landfarmed _____

Other CLOSE AS IS.Approx. cubic yards NA

Insitu Bioremediation _____

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 11' (Test hole bottom)Sample date 11/14/02 Sample time 1330

Sample Results

Soil: Benzene (ppm) _____

Water: Benzene (ppb) _____

Total BTEX (ppm) _____

Toluene (ppb) _____

Field Headspace (ppm) 0.0

Ethylbenzene (ppb) _____

TPH (ppm) ND

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 11/15/02 PRINTED NAME Jeffrey C. BlaggSIGNATURE Jeffrey C. Blagg AND TITLE President P.E. # 11607

CHAIN OF CUSTODY RECORD

08891

Client / Project Name <i>BLAGE / BP</i>			Project Location <i>CALLOW A #1E</i>		ANALYSIS / PARAMETERS									
Sampler: <i>NJV</i>			Client No. <i>94034-010</i>		No. of Containers	TPH (3015B)	BTEX (3021B)					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								<i>ALL SAMPLES GRAB & PRESERVED COOL</i>		
<i>① @ 11'</i>	<i>1/14/02</i>	<i>1330</i>	<i>21795</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>						<i>SEPARATOR PIT</i>		
<i>① @ 12'</i>	<i>1/14/02</i>	<i>1338</i>	<i>21796</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>						<i>BLOW PIT</i>		
<i>⑤ @ 13'</i>	<i>1/14/02</i>	<i>1350</i>	<i>21797</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>	<i>✓</i>					<i>DEHYDRATOR PIT</i>		
<i>⑤ @ 13'</i>	<i>1/14/02</i>	<i>1400</i>	<i>21798</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>	<i>✓</i>					<i>ABANDONED PIT</i>		
<i>① @ 6'</i>	<i>1/14/02</i>	<i>1410</i>	<i>21799</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>	<i>✓</i>					<i>ABANDONED PIT</i>		
Relinquished by: (Signature) <i>[Signature]</i>			Date <i>1/15/02</i>	Time <i>0714</i>	Received by: (Signature) <i>[Signature]</i>			Date <i>1-15-02</i>	Time <i>0714</i>					
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	<i>✓</i>		
											Cool - Ice/Blue Ice	<i>✓</i>		

CHAIN OF CUSTODY RECORD

08893

Client / Project Name BLAEG / BP			Project Location CALLOW A #1E		ANALYSIS / PARAMETERS									
Sampler: NJV			Client No. 94034-010		No. of Containers	TPH (30.53)	BTEX (302.18)					Remarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
⑤ @ 16'	1/17/02	0845	21834	SOIL	1	✓						GRAB SAMPLE ABANDONED PIT		
SP-1	1/17/02	0855	21835	SOIL	1	✓	✓					5 FT. COMPOSITE ABANDONED PIT STOCKPILE		
SP-1	1/17/02	0905	21836	SOIL	1	✓	✓					5 FT. COMPOSITE DEHYDRATOR PIT STOCKPILE		
												ALL SAMPLES PRESERVED COOL		
Relinquished by: (Signature) [Signature]			Date 1/17/02	Time 1010	Received by: (Signature) [Signature]			Date 1/17/02	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:	01-15-TPH QA/QC	Date Reported:	01-15-02
Laboratory Number:	21792	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-02
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

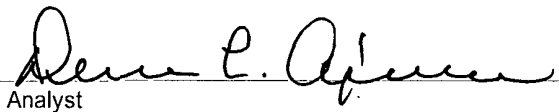
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

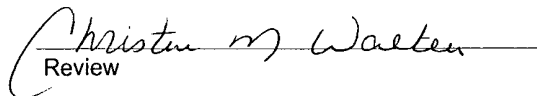
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 21792 - 21793 and 21795 - 21799.


Analyst


Review

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:	01-21-TPH QA/QC	Date Reported:	01-21-02
Laboratory Number:	21834	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-02
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%

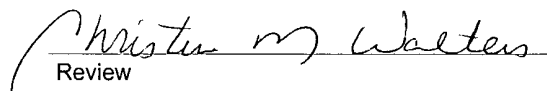
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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 21834 - 21836 and 21911 - 21913.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-15-BTEX QA/QC	Date Reported:	01-15-02
Laboratory Number:	21797	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-02
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

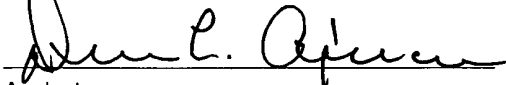
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	615	606	1.4%	0 - 30%	1.8
Toluene	51.6	50.7	1.7%	0 - 30%	1.7
Ethylbenzene	520	511	1.8%	0 - 30%	1.5
p,m-Xylene	1,800	1,760	2.2%	0 - 30%	2.2
o-Xylene	392	387	1.1%	0 - 30%	1.0

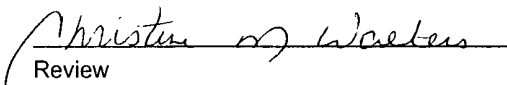
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	615	50.0	665	100.0%	39 - 150
Toluene	51.6	50.0	102	99.9%	46 - 148
Ethylbenzene	520	50.0	570	100.0%	32 - 160
p,m-Xylene	1,800	100	1,900	100.0%	46 - 148
o-Xylene	392	50.0	441	100.0%	46 - 148

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 21797 - 21799.


Analyst


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-21-BTEX QA/QC	Date Reported:	01-21-02
Laboratory Number:	21835	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-02
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

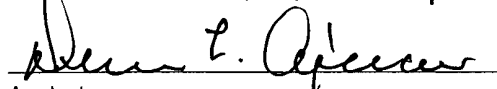
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	81.2	81.3	0.1%	0 - 30%	1.8
Toluene	96.3	96.0	0.3%	0 - 30%	1.7
Ethylbenzene	110	109	0.2%	0 - 30%	1.5
p,m-Xylene	554	553	0.1%	0 - 30%	2.2
o-Xylene	126	126	0.0%	0 - 30%	1.0

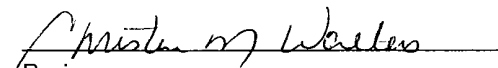
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	81.2	50.0	131	99.9%	39 - 150
Toluene	96.3	50.0	146	99.9%	46 - 148
Ethylbenzene	110	50.0	159	99.9%	32 - 160
p,m-Xylene	554	100	654	100.0%	46 - 148
o-Xylene	126	50.0	176	99.9%	46 - 148

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 21835 - 21836 and 21912 - 21913.


Analyst


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