

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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 PROD. CO. Telephone: (505)-326-9200 e-mail address: _____
Address: 200 ENERGY COURT. FARMINGTON. NM 87410
Facility or well name: VANDEWART A #3A API #: 30-045- 22798 U/L or Qtr/Qtr C Sec 13 T 29N R 8W
County: SAN JUAN Latitude 36.73017 Longitude 107.63083 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"/> <u>DEHYDRATOR</u> 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: <u>N/A</u> Construction material: <u>N/A</u> 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 BP CROUCH MESA LF. (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: PIT LOCATED APPROXIMATELY 42 FT. S77W FROM WELL HEAD.
PIT EXCAVATION: WIDTH 21 ft., LENGTH 21 ft., DEPTH 4.5 ft.
PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ EXCAVATE
Cubic yards: 20
BEDROCK BOTTOM, STEEL TANK TO BE INSTALLED

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 alternative OCD-approved plan ☒.

Date: 10/26/05

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature Jeff 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.


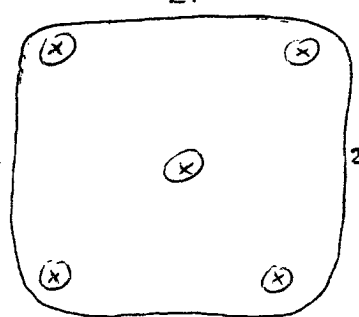
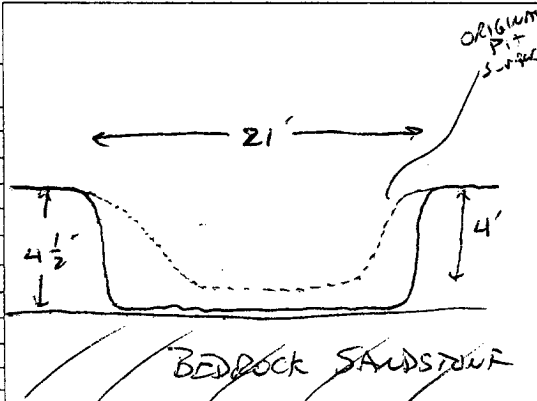
Approval: DEPUTY OIL & GAS INSPECTOR, DIST. 4

Printed Name/Title

Signature Bob Bell

Date:

FEB 28 2006

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B1680</u> COCR NO: <u>14970</u>																																					
FIELD REPORT: PIT CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																					
LOCATION: NAME: <u>VANDEWART A</u> WELL#: <u>3A</u> TYPE: <u>DEHY</u> QUAD/UNIT: <u>C</u> SEC: <u>13</u> TWP: <u>29N</u> RNG: <u>8W</u> PM: <u>NM</u> CNTY: <u>ST</u> ST: <u>NM</u> QTR/FOOTAGE: <u>800 FNL x 1650 FWL</u> ^{NE NW} CONTRACTOR: <u>PXS (Fernando)</u>		DATE STARTED: <u>10/24/05</u> DATE FINISHED: <u>10/24/05</u> ENVIRONMENTAL SPECIALIST: <u>JCB</u>																																					
EXCAVATION APPROX. <u>21</u> FT. x <u>21</u> FT. x <u>4 1/2</u> FT. DEEP. CUBIC YARDAGE: <u>20 ±</u>																																							
DISPOSAL FACILITY: <u>BP CROWN MESA L.F.</u> REMEDIATION METHOD: <u>EXCAVATE</u>																																							
LAND USE: <u>RANGE - BLM</u> LEASE: <u>SF - 078502</u> FORMATION: <u>MV</u>																																							
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>42</u> FT. <u>S 77W</u> FROM WELLHEAD.																																							
DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>2000</u> NEAREST SURFACE WATER: <u>>2000</u>																																							
NMOCD RANKING SCORE: <u>0</u> NMOCD TPH CLOSURE STD: <u>5000</u> PPM																																							
SOIL AND EXCAVATION DESCRIPTION:		OVM CALIB. READ. = <u>52.7</u> ppm OVM CALIB. GAS = <u>100</u> ppm RF = 0.52 TIME: <u>0845</u> am/pm DATE: <u>10/24</u>																																					
SOIL TYPE: <u>(SAND)</u> / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK SANDSTONE @ 4 1/2'</u>																																							
SOIL COLOR: _____																																							
COHESION (ALL OTHERS): NON COHESIVE / <u>(SLIGHTLY COHESIVE)</u> / COHESIVE / HIGHLY COHESIVE																																							
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MOISTURE: DRY / <u>(SLIGHTLY MOIST)</u> / MOIST / WET / SATURATED / SUPER SATURATED																																							
DISCOLORATION/STAINING OBSERVED: <u>(YES)</u> / NO EXPLANATION - <u>MINOR GRAY STAIN</u>																																							
HC ODOR DETECTED: <u>(YES)</u> / NO EXPLANATION - <u>MINOR</u>																																							
SAMPLE TYPE: GRAB / <u>(COMPOSITE)</u> # OF PTS. <u>5</u>																																							
ADDITIONAL COMMENTS: <u>21' x 21' x 4' Deep Earthen Pit. Use Beckhoe</u> <u>to Remove Immaterial soils for setting 21 BBL steel tank @</u> <u>this site. BEDROCK SANDSTONE 6" below Pit Base</u>																																							
FIELD 418.1 CALCULATIONS																																							
SCALE  0 1 FT	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMP. TIME</th> <th>SAMP. ID</th> <th>LAB NO.</th> <th>WEIGHT (g)</th> <th>mL FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. (ppm)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)																														
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TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>10/24/05</u>																																							

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

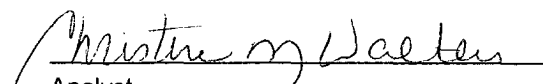
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 Pt. Composite	Date Reported:	10-26-05
Laboratory Number:	34783	Date Sampled:	10-24-05
Chain of Custody No:	14970	Date Received:	10-25-05
Sample Matrix:	Soil	Date Extracted:	10-25-05
Preservative:	Cool	Date Analyzed:	10-26-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.9	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.9	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: **Vanderwart A #3A Dehy Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 Pt. Composite	Date Reported:	10-26-05
Laboratory Number:	34783	Date Sampled:	10-24-05
Chain of Custody:	14970	Date Received:	10-25-05
Sample Matrix:	Soil	Date Analyzed:	10-26-05
Preservative:	Cool	Date Extracted:	10-25-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	38.1	1.7
Ethylbenzene	411	1.5
p,m-Xylene	375	2.2
o-Xylene	31.9	1.0
Total BTEX	856	

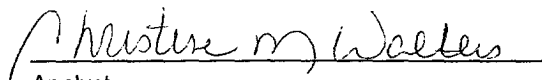
ND - Parameter not detected at the stated detection limit.

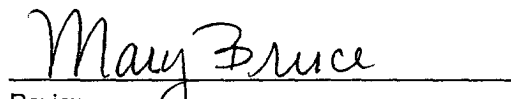
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Vanderwart A #3A Dehy Pit.


Analyst


Review

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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 PROD. CO.</u> Telephone: <u>(505)-326-9200</u> e-mail address: _____		
Address: <u>200 ENERGY COURT FARMINGTON, NM 87410</u>		
Facility or well name: <u>VANDEWART A #3A</u> API #: <u>30-045- 22798</u> U/L or Qtr/Qtr <u>C</u> Sec <u>13</u> T <u>29N</u> R <u>8W</u>		
County: <u>SAN JUAN</u> Latitude <u>36.73017</u> Longitude <u>107.63083</u> 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"/> <u>SEPARATOR</u> 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>N/A</u> Construction material: <u>N/A</u> 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) 0
	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) 0
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) 0
	1000 feet or more	(0 points)
Ranking Score (Total Points)		0

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 BP CROUCH MESA LF. (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: <u>PIT LOCATED APPROXIMATELY 135 FT. S14E FROM WELL HEAD.</u>
<u>PIT EXCAVATION: WIDTH 21 ft., LENGTH 21 ft., DEPTH 6 ft.</u>
<u>PIT REMEDIATION: CLOSE AS IS: <input type="checkbox"/>, LANDFARM: <input type="checkbox"/>, COMPOST: <input type="checkbox"/>, STOCKPILE: <input type="checkbox"/>, OTHER <input checked="" type="checkbox"/> EXCAVATE</u>
Cubic yards: <u>75</u>
<u>BEDROCK BOTTOM</u>

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 alternative OCD-approved plan ☒.

Date: 10/26/05

Printed Name/Title Jeff Blagg - P.E. # 11607

Signature Jeff 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, DIST. 4

Printed Name/Title _____ Signature _____

Date: FEB 28 2006

CLIENT: BP

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

LOCATION NO: B1680
COCR NO: 14970

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: VANDEWALT A WELL#: 3A TYPE: SEPARATOR
QUAD/UNIT: C SEC: 13 TWP: 29N RNG: 8W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 800 FNL x 1650 FWL NE(NW) CONTRACTOR: PXS (Fernando)

DATE STARTED: 10-25-05
DATE FINISHED: 10-25-05
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 21 FT. x 21 FT. x 6 FT. DEEP. CUBIC YARDAGE: 75 ±

DISPOSAL FACILITY: BP CROUCH MESA L.F. REMEDIATION METHOD: EXCAVATE

LAND USE: RANGE - BCM LEASE: SF-078502 FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 135 FT. S14E FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >100 NEAREST SURFACE WATER: >100

NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 53.4 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 0915 am/pm DATE: 10/25

SOIL TYPE: SAND (SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK SANDSTONE @ 6'
SOIL COLOR: DARK BROWN
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 CLOSED
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION: DARK GRAY/BLACK IN REMOVED SOILS
HC ODOR DETECTED: YES / NO EXPLANATION: N-Strong in Removed soils
SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5 15' x 15' x 3' Deep Excavation Pit, v. stained soils.
ADDITIONAL COMMENTS: USE BACKHOLE TO REMOVE IMPACTED SOILS TO BEDROCK SANDSTONE @ 6' Below Grade (3' Below Pit Base)
BEDROCK Bottom

SCALE

0 1 FT

PIT PERIMETER

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
5 Point Composite @ 6'	211

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5-Point	TPH/BTEX	0905
	<u>PASSED</u>	

PIT PROFILE

21'
15'
3'
6'
BEDROCK SANDSTONE
ORIGINAL PIT SURFACE

P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

TRAVEL NOTES: CALLOUT: _____ ONSITE: 10/25/05

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

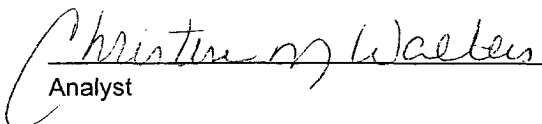
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Sample ID:	5 Pt. Composite	Date Reported:	10-26-05
Laboratory Number:	34784	Date Sampled:	10-25-05
Chain of Custody No:	14970	Date Received:	10-25-05
Sample Matrix:	Soil	Date Extracted:	10-25-05
Preservative:	Cool	Date Analyzed:	10-26-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

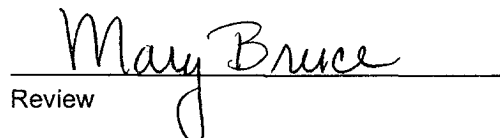
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	374	0.2
Diesel Range (C10 - C28)	208	0.1
Total Petroleum Hydrocarbons	582	0.2

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: **Vanderwart A #3A Sep Pit.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5 Pt Composite	Date Reported:	10-26-05
Laboratory Number:	34784	Date Sampled:	10-25-05
Chain of Custody:	14970	Date Received:	10-25-05
Sample Matrix:	Soil	Date Analyzed:	10-26-05
Preservative:	Cool	Date Extracted:	10-25-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	210	1.8
Toluene	1,130	1.7
Ethylbenzene	7,080	1.5
p,m-Xylene	6,890	2.2
o-Xylene	2,220	1.0
Total BTEX	17,500	

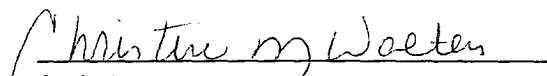
ND - Parameter not detected at the stated detection limit.

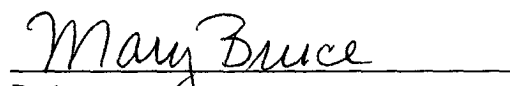
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Vanderwart A #3A Sep Pit.


Analyst


Review