

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 NMOC 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: HORTON LS #5 API #: 30-045- 21280 U/L or Qtr/Qtr O Sec 29 T 32N R 11W  
County: SAN JUAN Latitude 36.95091 Longitude 108.00921 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☐ Disposal ☒ BLOW

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness \_\_\_\_\_ mil Clay ☐

Pit Volume \_\_\_\_\_ bbl

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: N/A

Construction material: N/A

Double-walled, with leak detection? Yes ☐ If not, explain why not. N/A

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)	<b>0</b>
	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)	<b>0</b>
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)	<b>0</b>
	1000 feet or more	( 0 points)	
Ranking Score (Total Points)			<b>0</b>

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 84 FT. N53E FROM WELL HEAD  
PIT EXCAVATION: WIDTH 12 ft., LENGTH 12 ft., DEPTH 10 ft.  
PIT REMEDIATION: CLOSE AS IS: ☐, LANDFARM: ☐, COMPOST: ☐, STOCKPILE: ☐, OTHER ☒ EXCAVATE  
Cubic yards: 30  
BEDROCK BOTTOM

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 NMOC District Office, submit to Santa Fe office

Date: 12/13/05

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

Signature Jeff Blagg

Your certification and NMOC District Office, submit to Santa Fe office

Approval: DEPUTY OIL & GAS INSPECTOR, DIST. 4

Printed Name/Title

Signature Bob Bell

Date: FEB 28 2006

$$36,95091 \times 108,00921$$

CLIENT: BP

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

LOCATION NO: B1724  
COCR NO: 14599

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: HORTON LS WELL #: S TYPE: BLOW  
QUAD/UNIT: 0 SEC: 29 TWP: 32N RNG: 11W PM: NMCNTY: ST ST: NM  
QTR/FOOTAGE: 820 FSL x 1850 FBL SWLSE CONTRACTOR: PXS (MAMO)

DATE STARTED: 12-9-05  
DATE FINISHED: 12-9-05  
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. 12 FT. x 12 FT. x 10 FT. DEEP. CUBIC YARDAGE: 30 ±

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

LAND USE: RANGE-BLM LEASE: NM-010989 FORMATION: PC

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 84 FT. NS3E FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

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

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 52.8 ppm  
OVM CALIB. GAS = 100 ppm RF = 0.52  
TIME: 1240 am/pm DATE: 12-9-05

SOIL TYPE: SAND (SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK SANDSTONE @ 10'

SOIL COLOR: TAN

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 - GRAY IN REMOVED SOILS

HC ODOR DETECTED: YES NO EXPLANATION - STRONG

SAMPLE TYPE: GRAB COMPOSITE # OF PTS. 5 12'x12'x5' Deep Earth Pit. USE BACKHOE TO REMOVE IMPACTED SOILS TO BEDROCK @ 10'

ADDITIONAL COMMENTS: BEDROCK BOTTOM

SCALE

0 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 @ 10'	377

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 Point	TPH	1230
	BTEX	
	CU-	
	PAHs	

PIT PROFILE

12'

10'

BEDROCK / SANDSTONE

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

TRAVEL NOTES: CALLOUT: ONSITE: 12/9/05

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

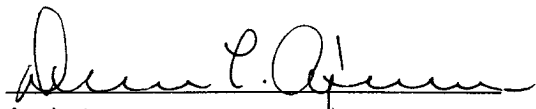
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 10'	Date Reported:	12-13-05
Laboratory Number:	35440	Date Sampled:	12-09-05
Chain of Custody No:	14599	Date Received:	12-12-05
Sample Matrix:	Soil	Date Extracted:	12-12-05
Preservative:	Cool	Date Analyzed:	12-13-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

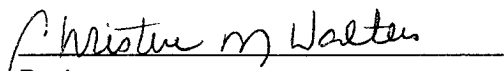
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,300	0.2
Diesel Range (C10 - C28)	105	0.1
Total Petroleum Hydrocarbons	1,410	0.2

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: **Horton LS 5 Blow 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-Point Composite @ 10'	Date Reported:	12-13-05
Laboratory Number:	35440	Date Sampled:	12-09-05
Chain of Custody:	14599	Date Received:	12-12-05
Sample Matrix:	Soil	Date Analyzed:	12-13-05
Preservative:	Cool	Date Extracted:	12-12-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	31.4	1.8
Toluene	810	1.7
Ethylbenzene	793	1.5
p,m-Xylene	6,260	2.2
o-Xylene	2,460	1.0
Total BTEX	10,350	

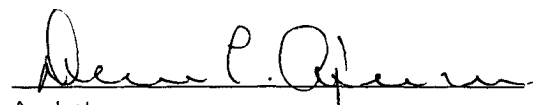
ND - Parameter not detected at the stated detection limit.

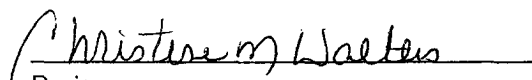
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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: Horton LS 5 Blow Pit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 10'	Date Reported:	12-13-05
Lab ID#:	35440	Date Sampled:	12-09-05
Sample Matrix:	Soil	Date Received:	12-12-05
Preservative:	Cool	Date Analyzed:	12-12-05
Condition:	Cool and Intact	Chain of Custody:	14599

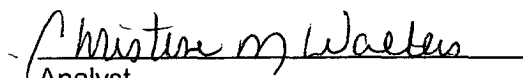
Parameter	Concentration (mg/Kg)
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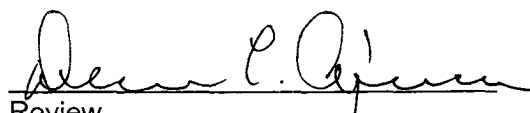
Total Chloride

23.3

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

Comments: Horton LS 5 Blow Pit.

  
Analyst

  
Review

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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>HORTON LS #5</u> API #: <u>30-045- 21280</u> U/L or Qtr/Qtr <u>O</u> Sec <u>29</u> T <u>32N</u> R <u>11W</u>	
County: <u>SAN JUAN</u> Latitude <u>36.95091</u> Longitude <u>108.00921</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"/>	
<b>Pit</b> 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	<b>Below-grade tank</b> 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) <b>0</b> 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) <b>0</b>
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) <b>0</b> 1000 feet or more (0 points)
<b>Ranking Score (Total Points)</b> <b>0</b>	

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: <u>PIT LOCATED APPROXIMATELY 24 FT. S29W FROM WELL HEAD.</u>
<u>PIT EXCAVATION: WIDTH N/A ft., LENGTH N/A ft., DEPTH N/A ft.</u>
<u>PIT REMEDIATION: CLOSE AS IS: <input checked="" type="checkbox"/>, LANDFARM: <input type="checkbox"/>, COMPOST: <input type="checkbox"/>, STOCKPILE: <input type="checkbox"/>, OTHER <input type="checkbox"/> (explain)</u>
Cubic yards: <u>N/A</u>
<u>BEDROCK BOTTOM</u>


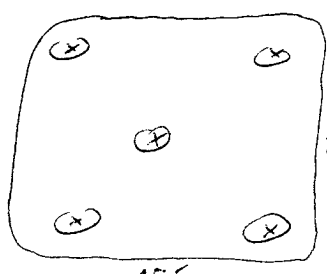
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an alternative OCD-approved plan ☒.

Date: 12/13/05

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: <u>DEPUTY OIL &amp; GAS INSPECTOR, DIST. IV</u>	Signature <u>[Signature]</u>	Date: <u>FEB 28 2006</u>
Printed Name/Title		

CLIENT: <u>BP</u>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	LOCATION NO: <u>B1724</u> COCR NO: <u>14599</u>																																							
<b>FIELD REPORT: PIT CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>1</u>																																							
LOCATION: NAME: <u>Horton LS</u> WELL #: <u>5</u> TYPE: <u>SEP</u> QUAD/UNIT: <u>0 SEC: 29 TWP: 32N RNG: 11W PM: NM CNTY: SJ ST: NM</u> QTR/FOOTAGE: <u>820 FSL x 1850 FEL SWISE</u> CONTRACTOR: <u>PXS (MAMO)</u>		DATE STARTED: <u>12-9-05</u> DATE FINISHED: <u>12-9-05</u> ENVIRONMENTAL SPECIALIST: <u>ICB</u>																																							
EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>0</u>																																									
DISPOSAL FACILITY: <u>NA</u> REMEDIATION METHOD: <u>CLOSE AS IS</u>																																									
LAND USE: <u>RANGE - BLN</u> LEASE: <u>NM - 010989</u> FORMATION: <u>PC</u>																																									
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SOIL AND EXCAVATION DESCRIPTION: <div style="float: right; text-align: right;">           OVM CALIB. READ. = <u>52.8</u> ppm            OVM CALIB. GAS = <u>100</u> ppm RF = 0.52            TIME: <u>1240</u> am/pm DATE: <u>12/9</u> </div>																																									
SOIL TYPE: SAND / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER <u>BEDROCK Sandstone @ 3' Bg</u> SOIL COLOR: <u>TAN</u> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / 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 / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>MINOR GRAY</u> HC ODOR DETECTED: <u>YES</u> / NO EXPLANATION: <u>MINOR</u> SAMPLE TYPE: GRAB / <u>COMPOSITE</u> # OF PTS. <u>5</u> 15' x 15' x 1' Deep Earthen Pit. Use Backhoe ADDITIONAL COMMENTS: <u>BEDROCK Bottom</u> to dig into pit & sample.																																									
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SCALE  0 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: _____																																									

# 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-Point Composite @ 3'	Date Reported:	12-13-05
Laboratory Number:	35439	Date Sampled:	12-09-05
Chain of Custody No:	14599	Date Received:	12-12-05
Sample Matrix:	Soil	Date Extracted:	12-12-05
Preservative:	Cool	Date Analyzed:	12-13-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

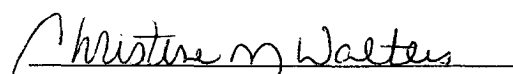
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2,140	0.2
Diesel Range (C10 - C28)	64.8	0.1
Total Petroleum Hydrocarbons	2,210	0.2

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: Horton LS 5 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-Point Composite @ 3'	Date Reported:	12-13-05
Laboratory Number:	35439	Date Sampled:	12-09-05
Chain of Custody:	14599	Date Received:	12-12-05
Sample Matrix:	Soil	Date Analyzed:	12-13-05
Preservative:	Cool	Date Extracted:	12-12-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,500	1.8
Toluene	7,370	1.7
Ethylbenzene	802	1.5
p,m-Xylene	10,390	2.2
o-Xylene	3,600	1.0
Total BTEX	23,660	

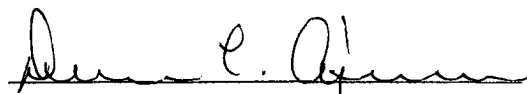
ND - Parameter not detected at the stated detection limit.

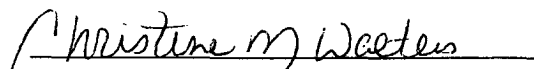
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Horton LS 5 Sep Pit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	5-Point Composite @ 3'	Date Reported:	12-13-05
Lab ID#:	35439	Date Sampled:	12-09-05
Sample Matrix:	Soil	Date Received:	12-12-05
Preservative:	Cool	Date Analyzed:	12-12-05
Condition:	Cool and Intact	Chain of Custody:	14599

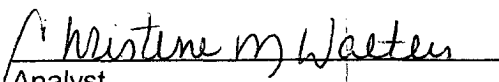
Parameter	Concentration (mg/Kg)
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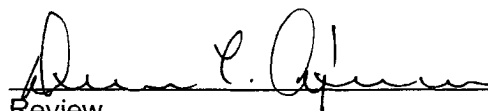
Total Chloride

20.7

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

Comments: Horton LS 5 Sep Pit.

  
Analyst

  
Review