

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: Burlington Resources Telephone: (505) 326-9841 e-mail address: LHasely@br-inc.com  
Address: 3401 East 30<sup>th</sup> Street, Farmington, New Mexico, 87402  
Facility or well name: Huerfano Unit No. 210 API #: 30045207670000 U/L or Qtr/Qtr O Sec 35 T 27N R 10W  
County: San Juan Latitude 36.52661 Longitude -107.8624 NAD: 1927 ☒ 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

<u>Pit</u>	<u>Below-grade tank</u>
Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: <u>60</u> bbl Type of fluid: <u>Produced Water and Incidental Oil</u> Construction material: <u>Fiberglass</u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u>No. Tank in place prior to Rule 50.</u>
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet (20 points) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 points) 20
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) 1000 feet or more (0 points) 20
	<b>Ranking Score (Total Points)</b> 40

**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 Envirotech Landfarm 2. (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:
Documentation of BTEX analysis via USEPA Method 8021 is attached for Wall Section C and Bottom of excavation.
Before backfill, the excavation was treated with a potassium permanganate solution to aid break down of any residual contaminants in the soil.

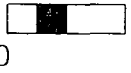
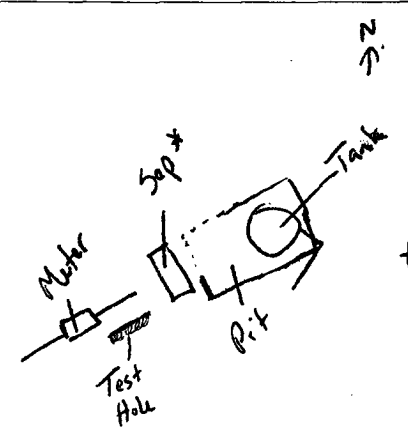
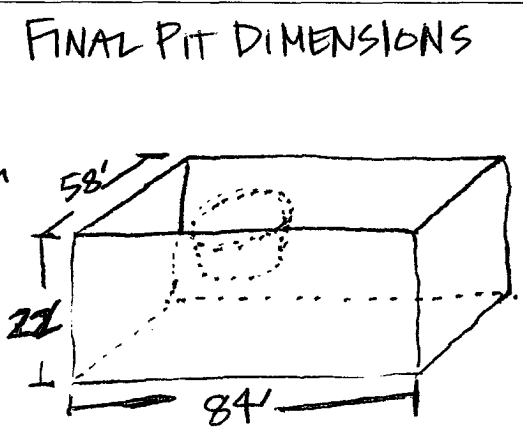
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved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

Date: 3/16/05  
Printed Name/Title Ed Hasely Signature Ed Hasely

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. #5  
Printed Name/Title Denny Feun Signature Denny Feun Date: MAR 17 2005

1/14/05

CLIENT: <u>Burlington Resources</u>	<b>ENVIROTECH INC.</b> <small>ENVIRONMENTAL SCIENTISTS &amp; ENGINEERS          5796 U.S. HIGHWAY 64-3014          FARMINGTON, NEW MEXICO 87401          PHONE: (505) 832-0615</small>	LOCATION NO: _____ C.O.C. NO: _____																																													
<b>FIELD REPORT: CLOSURE VERIFICATION</b>		PAGE No: <u>1</u> of <u>8</u>																																													
LOCATION: NAME: <u>Huerfano Unit</u> WELL #: <u>210</u> PIT: _____ QUAD/UNIT: _____ SEC: <u>35</u> TWP: <u>27N</u> RNG: <u>10W</u> PM: _____ CNTY: <u>SS ST: NM</u> QTR/FOOTAGE: _____ CONTRACTOR: <u>Bailey's Welding</u>		DATE STARTED: <u>1/14/05</u> DATE FINISHED: <u>2/3/05</u> ENVIRONMENTAL SPECIALIST: <u>MPM</u>																																													
EXCAVATION APPROX. <u>84</u> FT. x <u>58</u> FT. x <u>22</u> FT. DEEP. CUBIC YARDAGE: <u>2052</u> DISPOSAL FACILITY: <u>Envirotech LF #2</u> REMEDIATION METHOD: _____ LAND USE: _____ LEASE: <u>SF 079917</u> FORMATION: _____																																															
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>85</u> FT. <u>273°</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>20</u> NEAREST WATER SOURCE: <u>0</u> NEAREST SURFACE WATER: <u>20</u> NMOC D RANKING SCORE: <u>4.0</u> NMOC D TPH CLOSURE STD: <u>100</u> PPM SOIL AND EXCAVATION DESCRIPTION: _____																																															
CHECK ONE : <input type="checkbox"/> PIT ABANDONED <input checked="" type="checkbox"/> STEEL TANK INSTALLED																																															
<p><i>L &amp; R left early this day</i>  <i>TPH Sample 1 is a 5 pt. composite (4 walls and bottom) at a total depth of 13'!</i></p>																																															
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1/24

CLIENT: <u>BR</u>	<b>ENVIROTECH INC.</b> <small>ENVIRONMENTAL SCIENTISTS &amp; ENGINEERS          5796 U.S. HIGHWAY 64-3014          FARMINGTON, NEW MEXICO 87401          PHONE: (505) 632-0615</small>	LOCATION NO: <u>      </u> C.O.C. NO: <u>      </u>																																																															
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TRAVEL NOTES: \_\_\_\_\_  
 CALLOUT: \_\_\_\_\_  
 ONSITE: \_\_\_\_\_

1/26, 1/27, 1/28

CLIENT: <u>Burlington Resources</u>	<b>ENVIROTECH INC.</b> <small>ENVIRONMENTAL SCIENTISTS &amp; ENGINEERS          5796 U.S. HIGHWAY 64-3014          FARMINGTON, NEW MEXICO 87401          PHONE: (505) 632-0615</small>	LOCATION NO: _____ C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>4</u> of <u>8</u>
LOCATION: NAME: <u>H210</u> WELL #: _____ PIT: _____ QUAD/UNIT: _____ SEC: _____ TWP: _____ RNG: _____ PM: _____ CNTY: _____ ST: _____ QTR/FDDTAGE: _____ CONTRACTOR: _____		DATE STARTED: <u>1/14/05</u> DATE FINISHED: <u>2/2/05</u> ENVIRONMENTAL SPECIALIST: <u>MPM</u>

EXCAVATION APPROX. \_\_\_\_\_ FT. x \_\_\_\_\_ FT. x \_\_\_\_\_ FT. DEEP. CUBIC YARDAGE: \_\_\_\_\_

DISPOSAL FACILITY: \_\_\_\_\_ REMEDIATION METHOD: \_\_\_\_\_

LAND USE: \_\_\_\_\_ LEASE: \_\_\_\_\_ FORMATION: \_\_\_\_\_

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85 FT. 273 FROM WELLHEAD.

DEPTH TO GROUNDWATER: 20 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 20

NMOC D RANKING SCORE: 40 NMOC D TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

CHECK ONE:  
☐ PIT ABANDONED  
☒ STEEL TANK INSTALLED

1/26 - Excavator not yet stepped down. Water truck arrived a 1310 to hold contents of tank.

1/27 shale found at 21' TD. 1/28 Identified 8 different sampling locations to determine where contamination existed.

FIELD 418.1 CALCULATIONS

DATE	TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1/27	1330	Maximum extent	2	5	20	1	0.0191	132.554

SCALE



0 FT

PIT PERIMETER

OV  
RESULTS

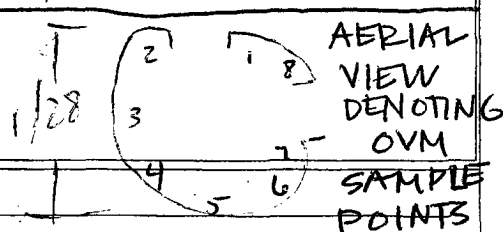
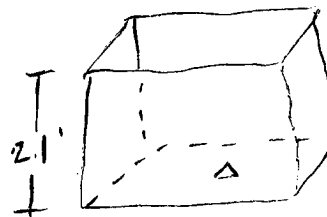
PIT PROFILE

1/28

SAMPLE ID	FIELD HEADSPACE PIO (ppm)
1	23 ppm
2	21
3	468
4	848
5	4
6	331
7	679
8	246


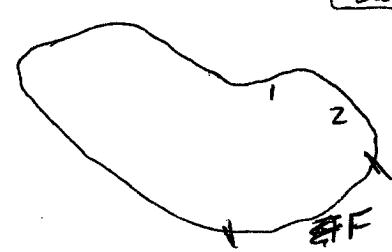
LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME


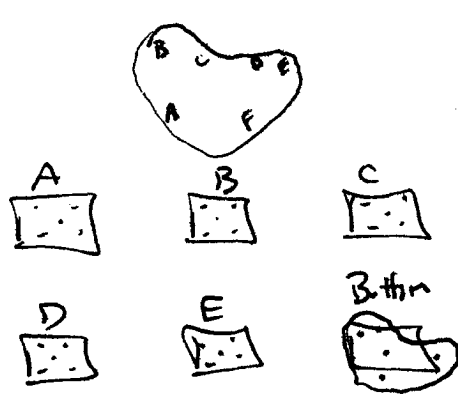


TRAVEL NOTES: CALLOUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_

1/31

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<div style="border: 1px solid black; display: inline-block; padding: 2px 5px; margin-bottom: 10px;">1/31</div> Bill Bailey arrived to tell would bring in excavator tomorrow. Started to work on identifying contaminated areas. Composite is Area F. Area 1 & 2 took 1 sample above and 1 sample below contamination.																																		
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PIT PERIMETER	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr> <td>1 Above Contamination</td> <td><u>18</u></td> </tr> <tr> <td>1a Below</td> <td><u>876</u></td> </tr> <tr> <td>2 Above</td> <td><u>42</u></td> </tr> <tr> <td>2a Below</td> <td><u>779</u></td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 Above Contamination	<u>18</u>	1a Below	<u>876</u>	2 Above	<u>42</u>	2a Below	<u>779</u>															PIT PROFILE								
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SAMPLE ID	ANALYSIS	TIME																																
TRAVEL NOTES: CALLOUT: _____ ONSITE: _____																																		

2/1

CLIENT: <u>BR</u>	<b>ENVIROTECH INC.</b> <small>ENVIRONMENTAL SCIENTISTS &amp; ENGINEERS          5796 U.S. HIGHWAY 64-3014          FARMINGTON, NEW MEXICO 87401          PHONE: (505) 632-0615</small>	LOCATION NO: _____ C.O.C. NO: <u>13973</u>																																
<b>FIELD REPORT: CLOSURE VERIFICATION</b>		PAGE No: <u>6</u> of <u>8</u>																																
LOCATION: NAME: <u>H210</u> WELL #: _____ PIT: _____ QUAD/UNIT: _____ SEC: _____ TWP: _____ RNG: _____ PM: _____ CNTY: _____ ST: _____ QTR/FOOTAGE: _____ CONTRACTOR: _____		DATE STARTED: <u>1/14/09</u> DATE FINISHED: <u>2/3/09</u> ENVIRONMENTAL SPECIALIST: <u>MPM</u>																																
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SOIL AND EXCAVATION DESCRIPTION:		CHECK ONE: <input type="checkbox"/> PIT ABANDONED <input checked="" type="checkbox"/> STEEL TANK INSTALLED																																
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TRAVEL NOTES: _____ CALLOUT: _____ ONSITE: <u>Wall F tested and passed</u>																																		

Continued following page

CLIENT: BR

ENVIROTECH INC.  
ENVIRONMENTAL SCIENTISTS & ENGINEERS  
5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

LOCATION NO: \_\_\_\_\_  
C.O.C. NO: 13573

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 7 of 8


LOCATION: NAME: H210 WELL #: \_\_\_\_\_ PIT: \_\_\_\_\_  
QUAD/UNIT: \_\_\_\_\_ SEC: \_\_\_\_\_ TWP: \_\_\_\_\_ RNG: \_\_\_\_\_ PM: \_\_\_\_\_ CNTY: \_\_\_\_\_ ST: \_\_\_\_\_  
QTR/FOOTAGE: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_

DATE STARTED: 1/11/05  
DATE FINISHED: 2/3/05  
ENVIRONMENTAL SPECIALIST: MPM

EXCAVATION APPROX. \_\_\_\_\_ FT. x \_\_\_\_\_ FT. x \_\_\_\_\_ FT. DEEP CUBIC YARDAGE: \_\_\_\_\_  
DISPOSAL FACILITY: \_\_\_\_\_ REMEDIATION METHOD: \_\_\_\_\_  
LAND USE: \_\_\_\_\_ LEASE: \_\_\_\_\_ FORMATION: \_\_\_\_\_

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 85 FT. 273 FROM WELLHEAD.  
DEPTH TO GROUNDWATER: 20 NEAREST WATER SOURCE: 0 NEAREST SURFACE WATER: 20  
NMOCB RANKING SCORE: 40 NMOCB TPH CLOSURE STD: 100 PPM

CHECK ONE:  
☐ PIT ABANDONED  
☒ STEEL TANK INSTALLED

SCALE  
0  1 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
	Wall D	7	5	20	1	0.0112	78
	Wall E	8	5	20	1	0.0091	28
	Bottom	9	5	20	1	0.0752	522

PIT PERIMETER

OVM RESULTS

PIT PROFILE

1

2

3

4

5

SAMPLE ID

FIELD HEADSPACE PID (ppm)

LAB SAMPLES


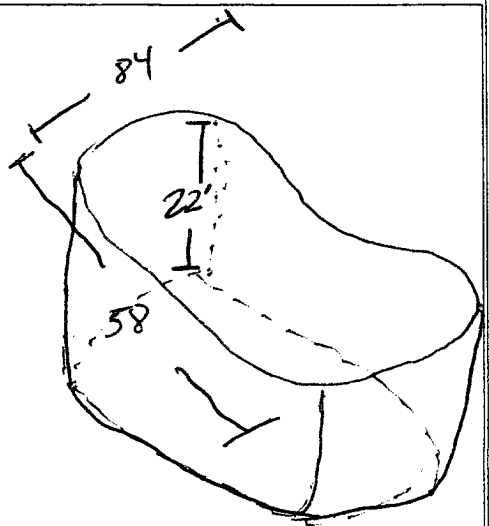
SAMPLE ID	ANALYSIS	TIME

Continued from previous page

TRAVEL NOTES: CALLOUT: \_\_\_\_\_ ONSITE: \_\_\_\_\_



2/2

CLIENT: <u>Burlington Resources</u>	<b>ENVIROTECH INC.</b> <small>ENVIRONMENTAL SCIENTISTS &amp; ENGINEERS          5786 U.S. HIGHWAY 84-3014          FARMINGTON, NEW MEXICO 87401          PHONE: (505) 632-0615</small>	LOCATION NO: _____ C.D.C. NO: _____																																								
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CHECK ONE : <input type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED																																										
<p><u>2/2</u> Sprayed pit w/ potassium permanganate Received results from <del>C880</del> BTEX sampling. All wells within standards. Informed Les, told crews to start backfilling.</p>																																										
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TRAVEL NOTES: _____ CALLOUT: _____ ONSITE: _____																																										

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**


Client:	Burlington Resources	Project #:	92115-021-009
Sample No.:	1	Date Reported:	3/2/2005
Sample Description	5 Pt. Composite @ 13' Depth	Date Sampled:	1/15/2005
Sample Matrix:	Soil	Date Analyzed:	1/15/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

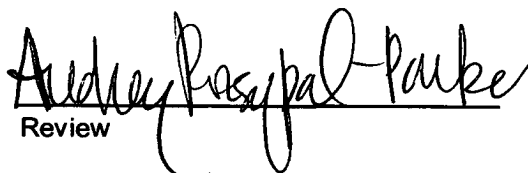
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	>5000	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of V and Waste, USEPA Storet No. 4551, 1978.

Comments: Huerfano Unit No. 210

  
Analyst

  
Review

**EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS**

Client:	Burlington Resources	Project #:	92115-021-009
Sample No.:	2	Date Reported:	3/2/2005
Sample ID:	Center of Bottom @ 21' Depth	Date Sampled:	1/27/2005
Sample Matrix:	Soil	Date Analyzed:	1/27/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	133	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Huerfano Unit No. 210**

Analyst

Review

# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Burlington Resources	Project #:	92115-021-009
Sample No.:	9	Date Reported:	3/2/2005
Sample ID:	5 Pt. Composite, Bottom of Excavation @ 22' Depth	Date Sampled:	2/1/2005
Sample Matrix:	Soil	Date Analyzed:	2/1/2005
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	522	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Huerfano Unit No. 210

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-021
Sample ID:	Wall C	Date Reported:	02-02-05
Laboratory Number:	32024	Date Sampled:	02-01-05
Chain of Custody:	13573	Date Received:	02-01-05
Sample Matrix:	Soil	Date Analyzed:	02-02-05
Preservative:	Cool	Date Extracted:	02-01-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	10.2	2.1
Toluene	18.5	1.8
Ethylbenzene	20.6	1.7
p,m-Xylene	30.0	1.5
o-Xylene	15.1	2.2
Total BTEX	94.4	

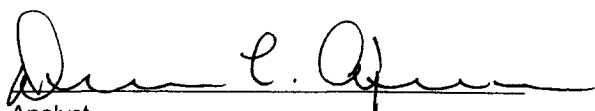
ND - Parameter not detected at the stated detection limit.

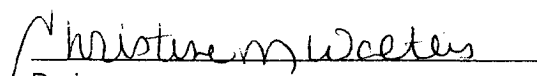
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Huerfano, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Burlington Resources	Project #:	92115-021
Sample ID:	Bottom	Date Reported:	02-02-05
Laboratory Number:	32027	Date Sampled:	02-01-05
Chain of Custody:	13573	Date Received:	02-01-05
Sample Matrix:	Soil	Date Analyzed:	02-02-05
Preservative:	Cool	Date Extracted:	02-01-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.9	2.1
Toluene	141	1.8
Ethylbenzene	213	1.7
p,m-Xylene	595	1.5
o-Xylene	41.5	2.2
Total BTEX	993	

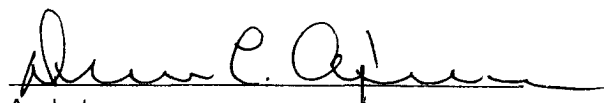
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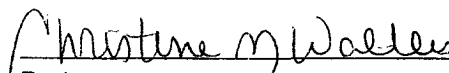
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Comments: Huerfano, NM.

  
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Review